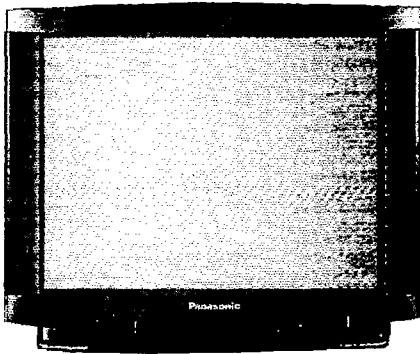


# Service Manual



Colour Television

**TX-29AD2/M**

**EURO-2S Chassis**

## SPECIFICATIONS

<b>Power Source :</b>	220-240V AC 50Hz	<b>AV2 OUT</b>	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms, 1kΩ Selectable output (21 pin)
<b>Power Consumption :</b>	110W	<b>AV3 IN</b>	S-Video IN Y : 1V p-p 75Ω (4-pin) C : 0.3V p-p 75Ω Audio (RCA x 2) 500mV rms, 10kΩ Video (RCA x 1) 1V p-p 75Ω
<b>Aerial Impedance :</b>	75Ω unbalanced, Coaxial Type	<b>High Voltage :</b>	31kV ±1kV at zero beam current
<b>Receiving System :</b>	PAL I, PAL 60 M.NTSC, NTSC (AV only)	<b>Picture Tube :</b>	72cm Super Flat FST 110° measured diagonally.
<b>Receiving Channels :</b>	UHF E21 - E69	<b>Audio Output :</b>	Internal Speaker 2 x 20 W (Music Power) 8Ω Impedance
<b>Intermediate Frequency :</b>	Video 39.5 MHz Sound 33.5 MHz Colour 35.07 MHz	Headphones 8Ω Impedance	<b>Accessories supplied :</b> Remote Control 2 x UM3 Batteries T.V. Stand
<b>Video / Audio Terminals :</b>		<b>Dimensions :</b>	Height : 570mm Width : 698mm Depth : 483mm
<b>AUDIO MONITOR OUT</b>	Audio(RCA x 2) 500mV rms, 1kΩ	<b>Net Weight</b>	39kg
<b>AV1 IN</b>	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms, 10kΩ RGB (21 pin)	Specifications are subject to change without notice. Weight and dimensions shown are approximate.	
<b>AV1 OUT</b>	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms, 1kΩ		
<b>AV2 IN</b>	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms, 10kΩ S-Video IN Y : 1V p-p 75Ω (21 pin) C : 0.3V p-p 75Ω		

**Panasonic**

**Panasonic (U.K.) LTD.**  
WILLOUGHBY ROAD,  
BRACKNELL,  
BERKS,  
RG12 8FT.

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## Safety Precautions

### General Guide Lines

1. It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.
2. When servicing, observe the original lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
3. After servicing, see that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations are correctly installed.
4. When the receiver is not being used for a long period of time, unplug the power cord from the AC outlet.
5. Potentials as high as 32 kV are present when this receiver is in operation. Operation without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the picture to the chassis before handling the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

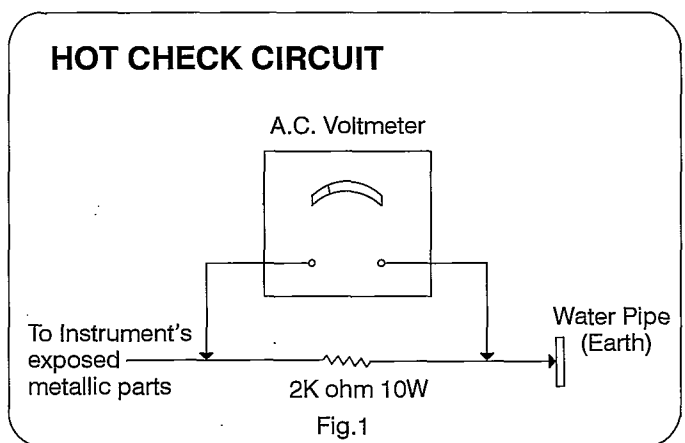
### Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs of the plug.
2. Turn on the receiver's power switch.
3. Measure the resistance value with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials, connectors, control shafts etc. When the exposed metallic part has a return path to the chassis the reading should be between 4M ohm and 20M ohm. When the exposed metal does not have a return path to the chassis the reading must be infinite.

### Leakage Current Hot Check

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 2k ohm 10W resistor in series with an exposed metallic part on the receiver and an earth such as a water pipe.
3. Use an AC voltmeter with high impedance to measure the potential across the resistor.

4. Check each exposed Metallic part and check the voltage at each point.
5. Reverse the AC plug at the outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1.4 Vrms. In case a measurement is outside the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.



### X-Radiation Warning

1. The potential sources of X-Radiation in TV sets are the high voltage section and the picture tube.
2. When using a picture tube test jig for service ensure that the jig is capable of handling 32kV without causing X-Radiation.

**NOTE:** It is important to use an accurate periodically calibrated high voltage meter

1. Set the brightness to minimum.
2. Measure the high voltage. The meter should indicate 31kV  $\pm$  1kV at zero beam current if the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
3. To prevent an X-Radiation possibility, it is essential to use the specified tube.

# LOCATION OF CONTROLS

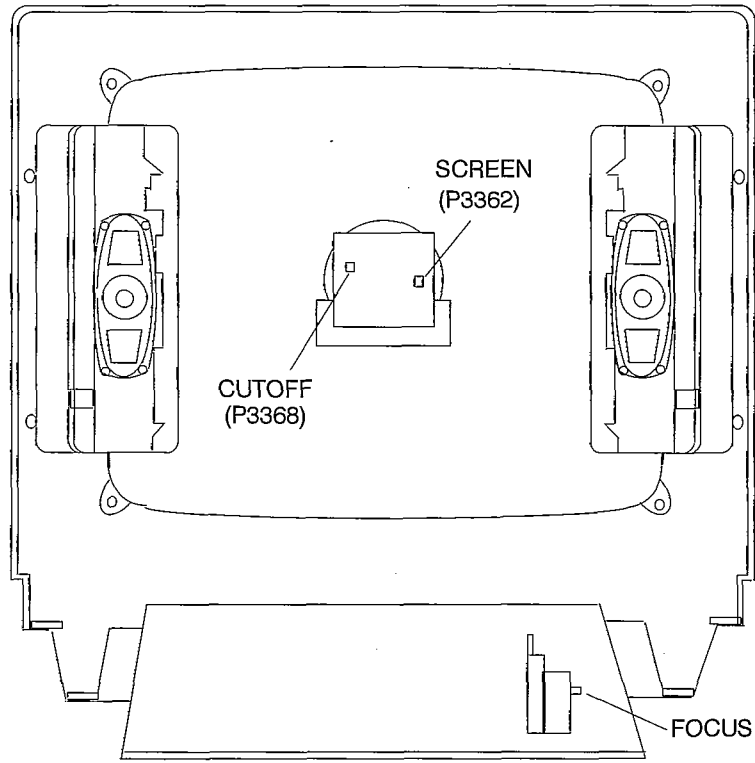
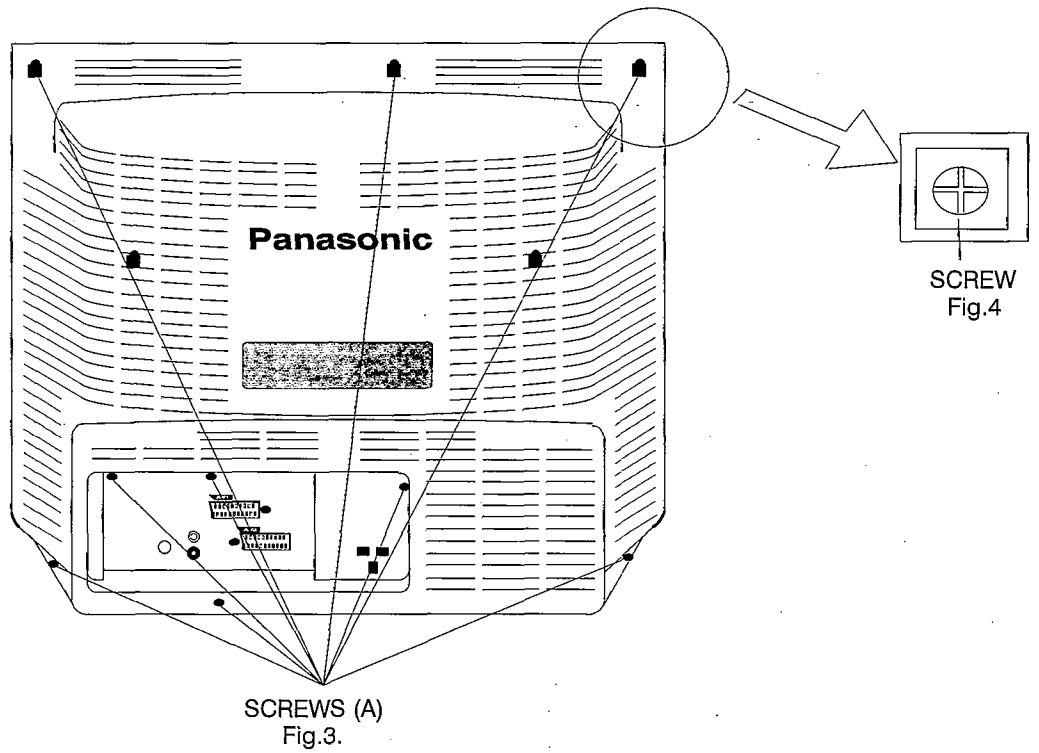


Fig.2

# SERVICE HINTS

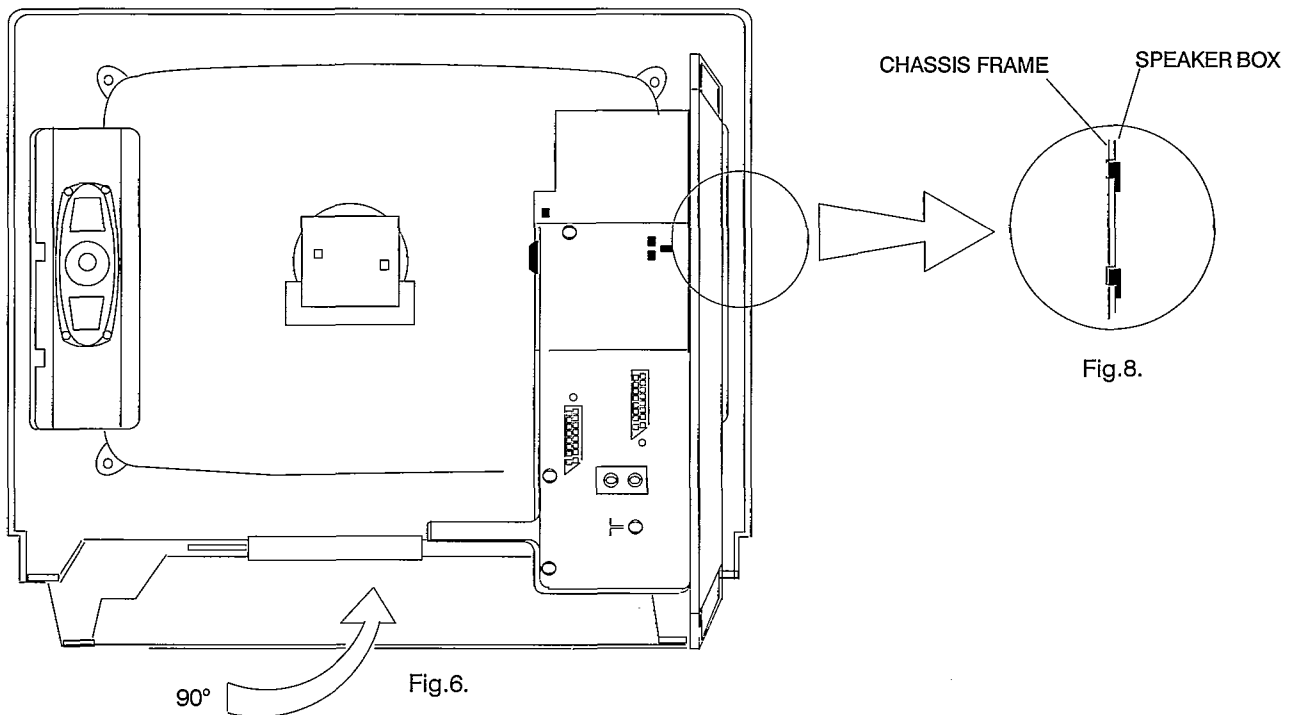
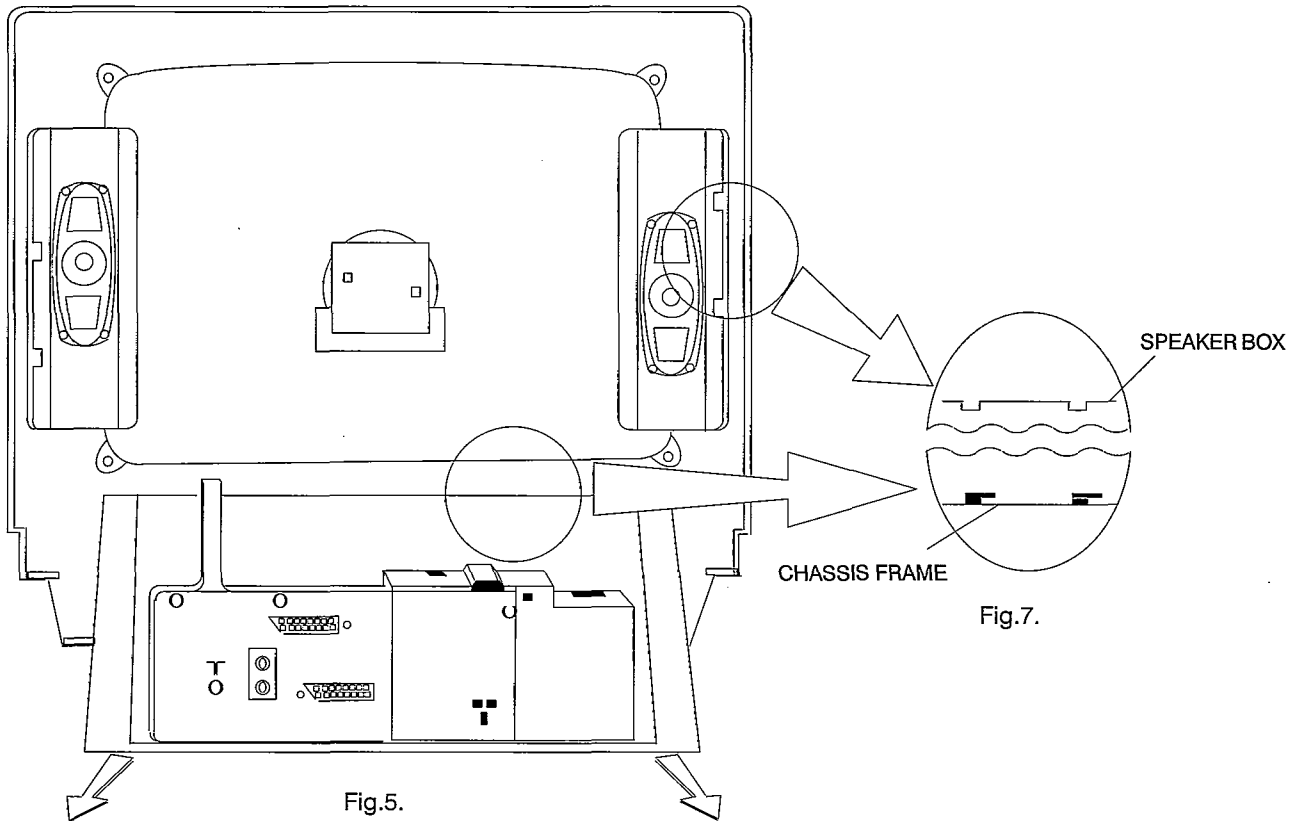
## How to remove the rear cover

1. Remove the 9 fixing screws (A) as shown in Fig.3/Fig.4.



## HOW TO MOVE THE CHASSIS INTO THE SERVICE POSITION

1. Hold and lift the rear of the E- PCB chassis and M - PCB as shown in Fig.5. and gently pull the chassis toward you. Release the M - PCB as explained on page 5.
2. Turn the chassis through 90°, anti-clockwise, as shown in Fig.6.
3. Clip the chassis onto the speaker box as shown in Fig.7 and Fig.8.
4. After servicing ensure all wiring is returned to its original position before returning the receiver to the customer.



## HOW TO REMOVE THE CONTROL PANEL (M-BOARD)

1. Remove the E-board from the cabinet with the M-board attached.
2. Unclip by lifting the front of the M-board vertically.
3. After servicing ensure all wiring is returned to its original position before returning the receiver to the customer.

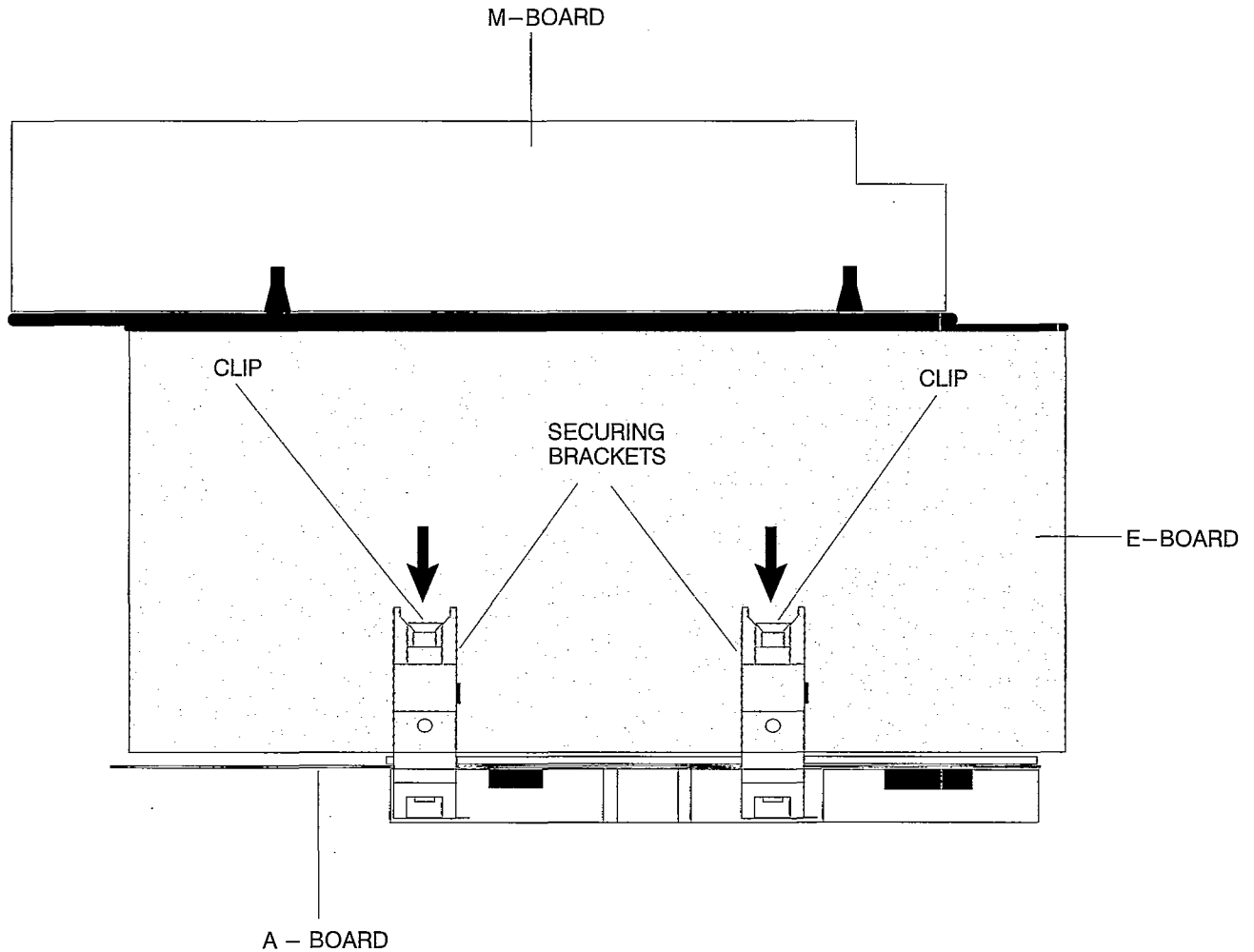


Fig.9.

## HOW TO REMOVE THE A - BOARD

1. Disconnect the 5 leads from the A - board.
2. Release the A and F boards securing brackets by pushing the clips in the direction shown in Fig.9, and remove the A- board by gently lifting vertically.
3. After servicing ensure all wiring is returned to its original position before returning the receiver to the customer.

## SERVICE POSITION FOR THE A-BOARD

1. Remove the A-board from the main chassis (E-board) as shown in Fig.9.
  2. Remove the two screws (A) (Fig.10) from the plastic AV cover and unclip the AV cover from the A-board.
  3. Carefully unclip the three metal clips marked B in Fig.10.
  4. Unclip the front metal cover (Fig11) and remove from the A-board.
  5. Fit the extension leads to the A-board making sure that the A-board does not touch the E-board (Fig.12).
  6. After servicing ensure all wiring is returned to its original position before returning the receiver to the customer.
- Note :** The extension lead wire kit is supplied as a service kit. (Part number TZS4EP001).

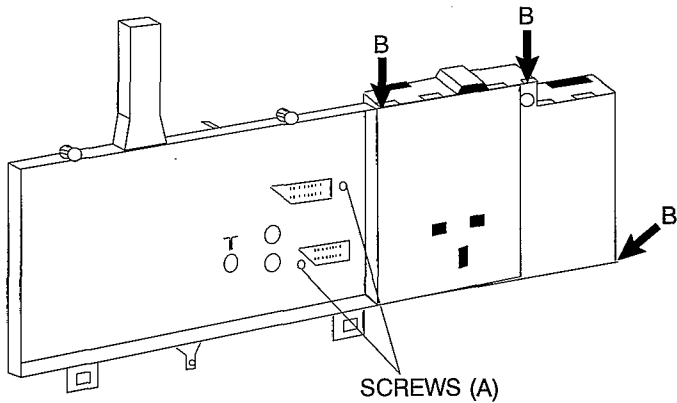


Fig. 10.

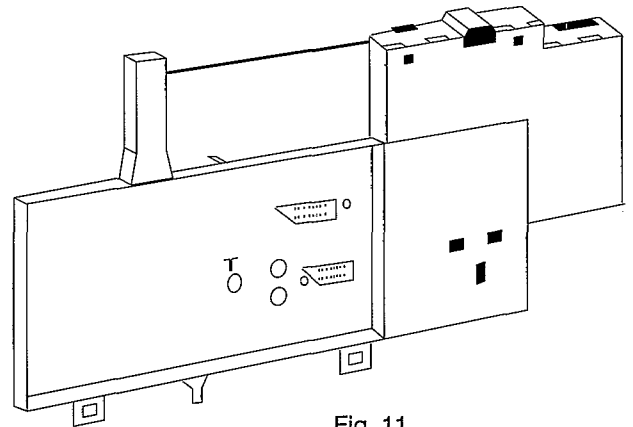


Fig. 11.

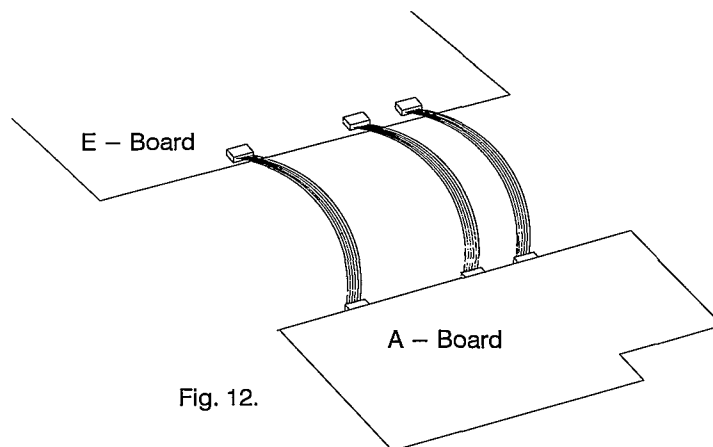


Fig. 12.

## SERVICE MODE

The remote control is used for entering and storing adjustments, with the exception of cut-off adjustments which must always be done prior to service adjustment. Perform adjustments in accordance with screen display. The display on the screen also specifies the CCU variants as well as the approx. setting values. The adjustment sequence for the service mode is indicated below.

1. Set the Bass to maximum position, set the Treble to minimum position, press the F button followed by the Volume down on the customer controls at the front of the TV and at the same time press the Reveal button on the remote control, this will place the TV into the Service Mode.
2. Press the RED / GREEN buttons to step down / up through the functions.
3. Press the YELLOW / BLUE buttons to alter the function values.
4. Press the STORE button on the preset panel after each adjustment has been made to store the required values.
5. To exit the Service Mode press the Normalisation button.

**NOTE:** This TV also has the option of using a Memory Pack which enables you to copy the preset TV channels and analogue levels into the Memory Pack and then upload them onto another EURO-2S TV set.

## Using the Memory Pack

### TV to Memory Pack process

1. Plug the memory pack into the lower of the two 21 pin terminals at the back of the TV and switch the TV on. If the TV has only one 21 pin connector then this will be able to accept the memory pack.
2. Go into the Service Mode as explained above. The screen will show:—

Program  
External>>TV

3. Press the blue button on the remote control. The screen will show:—

Program  
TV>>External

4. Press the STORE button on the TV. The screen will show:—

Storing

5. All the tuning information stored inside the TV will now be transferred to the Memory Pack. This process will take 2–3 minutes to complete and when finished the screen will show:—

OK!

### Memory Pack to TV Process

1. Plug the memory pack into the lower of the two 21 pin terminals at the back of the TV and switch the TV on. If the TV has only one 21 pin connector then this will be able to accept the memory pack.
2. Go into the Service Mode as explained above. The screen will show:—

Program  
External>>TV

3. Press the STORE button on the TV. The screen will show:—

Loading

4. All the tuning information stored inside the Memory Pack will now be transferred to the TV. This process will take 2–3 minutes to complete and when finished the screen will show:—

OK!

5. The tuning information from the Memory Pack has now been copied into the TV
6. To exit from the Service Mode switch off the TV.
7. The process has now been completed and the Memory Pack can now be removed.

## Errors

If an error occurs while using the Memory Pack the TV will detect this and the screen will show:—

Program  
Error!

If this happens then switch off the TV and repeat the process that was being used. If the errors continue to occur then check the connectors between the TV and the memory pack and check the 9V battery inside the memory pack.

## SELF CHECK

Self check is used to automatically check the Bus lines and Hexadecimal code of the TV set.

To enter the Self Check mode press Function down button, on the Preset Panel, at the same time pressing the Status button, on the Remote Control, and the screen will show:—

When exiting Self Check the customer settings will be returned to factory settings.

1 — ok	Tuner	11 — --	Dolby IC for C/R	21 — ok	P SBLED
2 — ok	VIF	12 — ok	P S MODE	22 — ok	P OFF
3 — ok	EEPROM	13 — ok	P TA0	23 — ok	P DEFL
4 — ok	Sound AV switch1	14 — ok	P TA1	24 — ok	P RAM
5 — ok	Video AV switch1	15 — ok	P TA2		
6 — ok	VDP	16 — ok	P TA3		
7 — ok	TPU	17 — ok	P SDA		
8 — ok	MSP	18 — ok	P SCL1		
9 — --	Dolby Sub	19 — ok	P SCL3		
10 — --	Dolby IC for L/R	20 — ok	P SCL4		

Hex codes	
04	
CC	
84	
94	
24	

If the CCU ports have been checked and found to be incorrect or not located then "--" will appear in place of "OK".

## ADJUSTMENT PROCEDURE

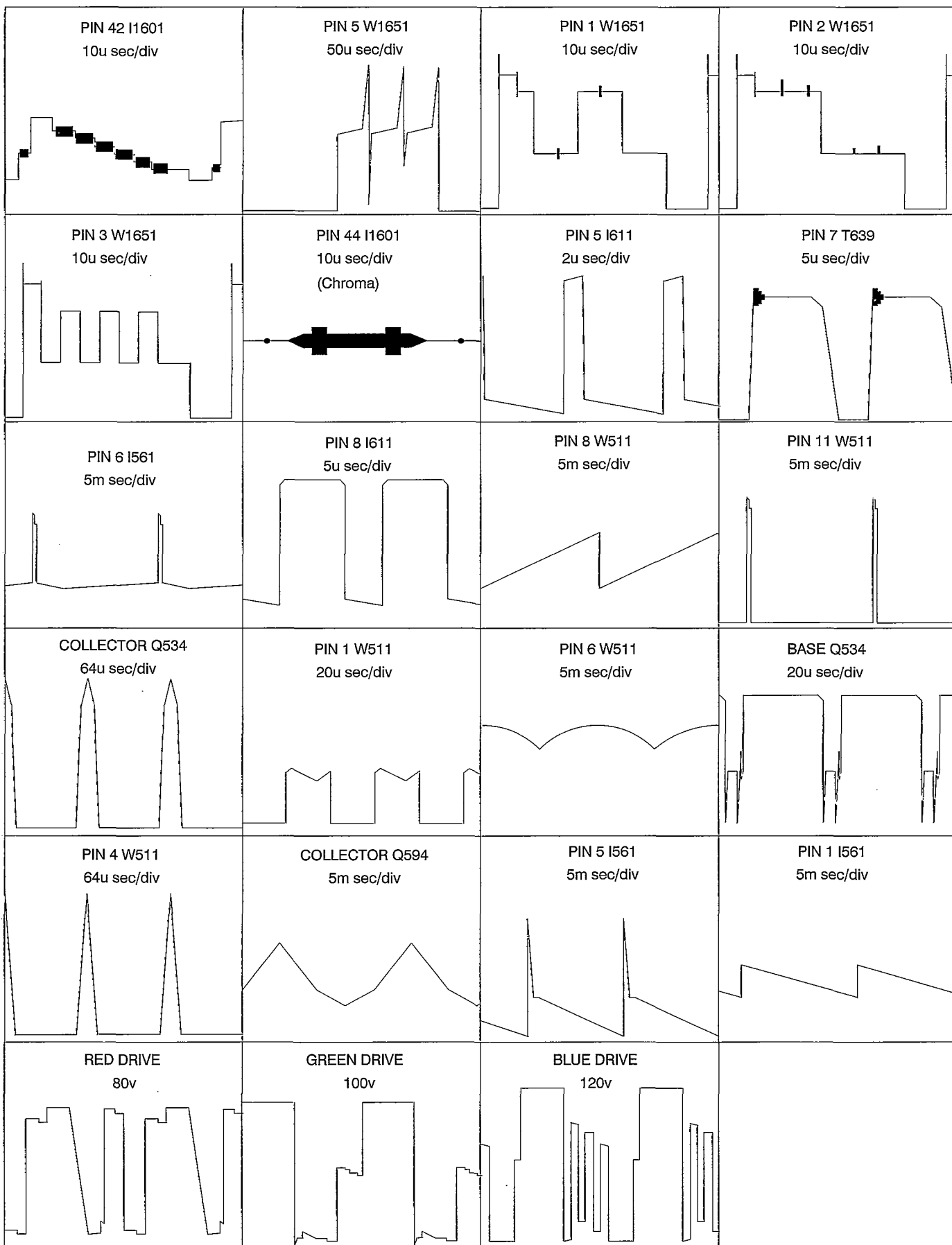
Item/Preparation	Adjustments										
<b>+B SET-UP</b> 1. Operate the TV set 2. Set the controls: Brightness      minimum Contrast         minimum	1. Set the +B voltage up as follows: Adjust <b>P633</b> so that <b>U147</b> shows $147V \pm 0.5V$ 2. Confirm the following voltages. <table border="0"> <tr> <td><b>U5</b> 5 + 0.1/-0.25V</td> <td><b>U28</b> 28 ± 1V</td> </tr> <tr> <td><b>U8</b> 8 ± 0.5V</td> <td><b>U40</b> 38.5 + 1.5/-1V</td> </tr> <tr> <td><b>U12</b> 12 ± 0.5V</td> <td><b>U210</b> 209 ± 10V</td> </tr> <tr> <td><b>U16</b> 16 + 0.5/-1V</td> <td><b>U5SB</b> 5 ± 0.25V</td> </tr> <tr> <td><b>U25</b> 24.8 ± 1V</td> <td><b>UM</b> 8 ± 0.5V</td> </tr> </table>	<b>U5</b> 5 + 0.1/-0.25V	<b>U28</b> 28 ± 1V	<b>U8</b> 8 ± 0.5V	<b>U40</b> 38.5 + 1.5/-1V	<b>U12</b> 12 ± 0.5V	<b>U210</b> 209 ± 10V	<b>U16</b> 16 + 0.5/-1V	<b>U5SB</b> 5 ± 0.25V	<b>U25</b> 24.8 ± 1V	<b>UM</b> 8 ± 0.5V
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<b>U25</b> 24.8 ± 1V	<b>UM</b> 8 ± 0.5V										
<b>RF AGC</b> 1. Receive a test pattern. 2. Connect an oscilloscope between the tuner RF AGC and ground. 3. Set the oscilloscope gain range to 1V/div.	1. Check that the noise becomes large when the RF AGC VR <b>P4701</b> is turned counterclockwise. After the check turn it clockwise. 2. Gradually turn the RF AGC VR anti-clockwise, and set the RF AGC VR to the point where the RF AGC voltage is just falling to a point where this voltage drops by 0.2V from the maximum value.										
<b>CUT OFF</b> 1. Receive a black and white signal. 2. Degauss the tube externally. 3. Set the TV into Service Mode 1. 4. Select Ug2 Test.	1. Confirm which colour has the biggest value 2. Turn the screen VR <b>P3368</b> to minimum. 3. Connect an oscilloscope to the cathode with the biggest value colour. 4. Adjust <b>P3368</b> to get a low light pulse voltage of $150V \pm 5V$ . 5. Adjust <b>P3362</b> to whichever colour reaches $50 \pm 10$ first.										



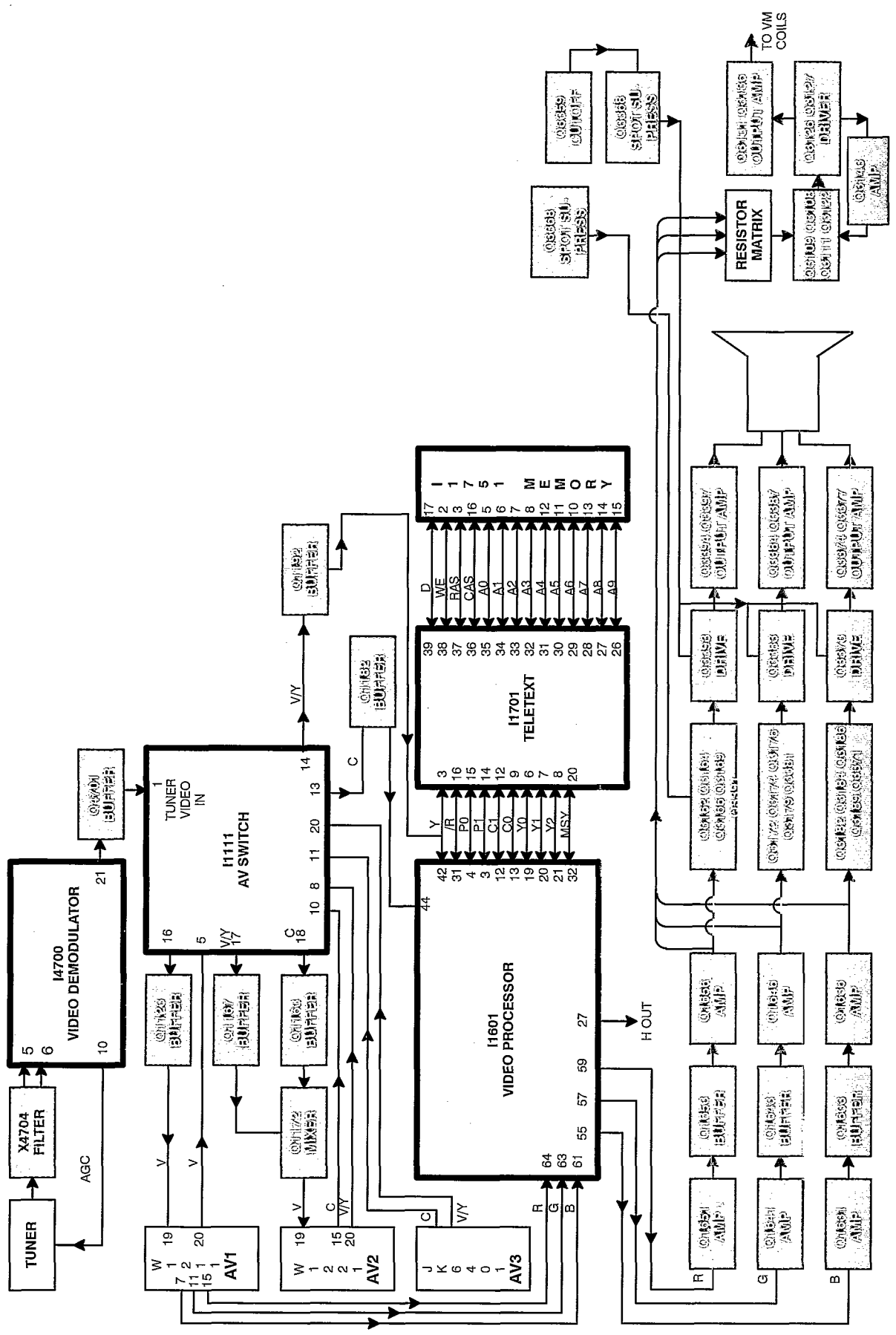
## ALIGNMENT SETTINGS (These figures are nominal and used for representative purposes only)

Alignment Function	TX-29AD2/M	Settings / Special features						
1. Vertical amplitude	V-AMP 051	Optimum setting						
2. Vertical symmetry	V-SYM 013							
3. Vertical linearity	V-LIN 012							
4. Vert. D.C.	Vert. D.C. 000	Not to be adjusted.						
5. V-Pos.	V. Pos. 003	Optimum setting						
6. Horizontal amplitude	H-AMP -033	Optimum setting						
7. Horizontal position	H-POS 049							
8. Text Position	TEXT POSITION 045	Optimum setting						
9. EW-amplitude	E-W-AMP 1 -058	Optimum setting						
10. EW-amplitude	E-W-AMP 2 023	Optimum setting						
11. Trapezium-comp	TRAPEZ-1 -014	Optimum setting						
12. Trapezium-comp	TRAPEZ-2 012	Optimum setting						
13. Colour VCO	Colour VCO 015	Press either Blue or Yellow buttons to effect automatic adjustment						
14. Cut-off DC	Cut-off DC 050	Not to be adjusted.						
15. Ug2 Test	<table border="1"> <tr> <th colspan="3">Ug 2 Test</th> </tr> <tr> <td>107</td> <td>021</td> <td>023</td> </tr> </table>	Ug 2 Test			107	021	023	To adjust the screen settings. Turn P3362 until a colour reaches $25 \pm 5$ , place an oscilloscope probe on the cathode with the highest output and adjust P3368 so the oscilloscope trace reads 150V 0-peak, then turn P3362 up so the highest numbered box on the TV screen reads $50 \pm 10$ .
Ug 2 Test								
107	021	023						
16. Cutoff	<table border="1"> <tr> <th colspan="3">Cutoff</th> </tr> <tr> <td>045</td> <td>055</td> <td>050</td> </tr> </table>	Cutoff			045	055	050	Press the GREEN button to step through the settings. Adjust for optimum.
Cutoff								
045	055	050						
17. White	<table border="1"> <tr> <th colspan="3">White</th> </tr> <tr> <td>224</td> <td>255</td> <td>237</td> </tr> </table>	White			224	255	237	Press the GREEN button to step through the settings. Adjust for optimum.
White								
224	255	237						

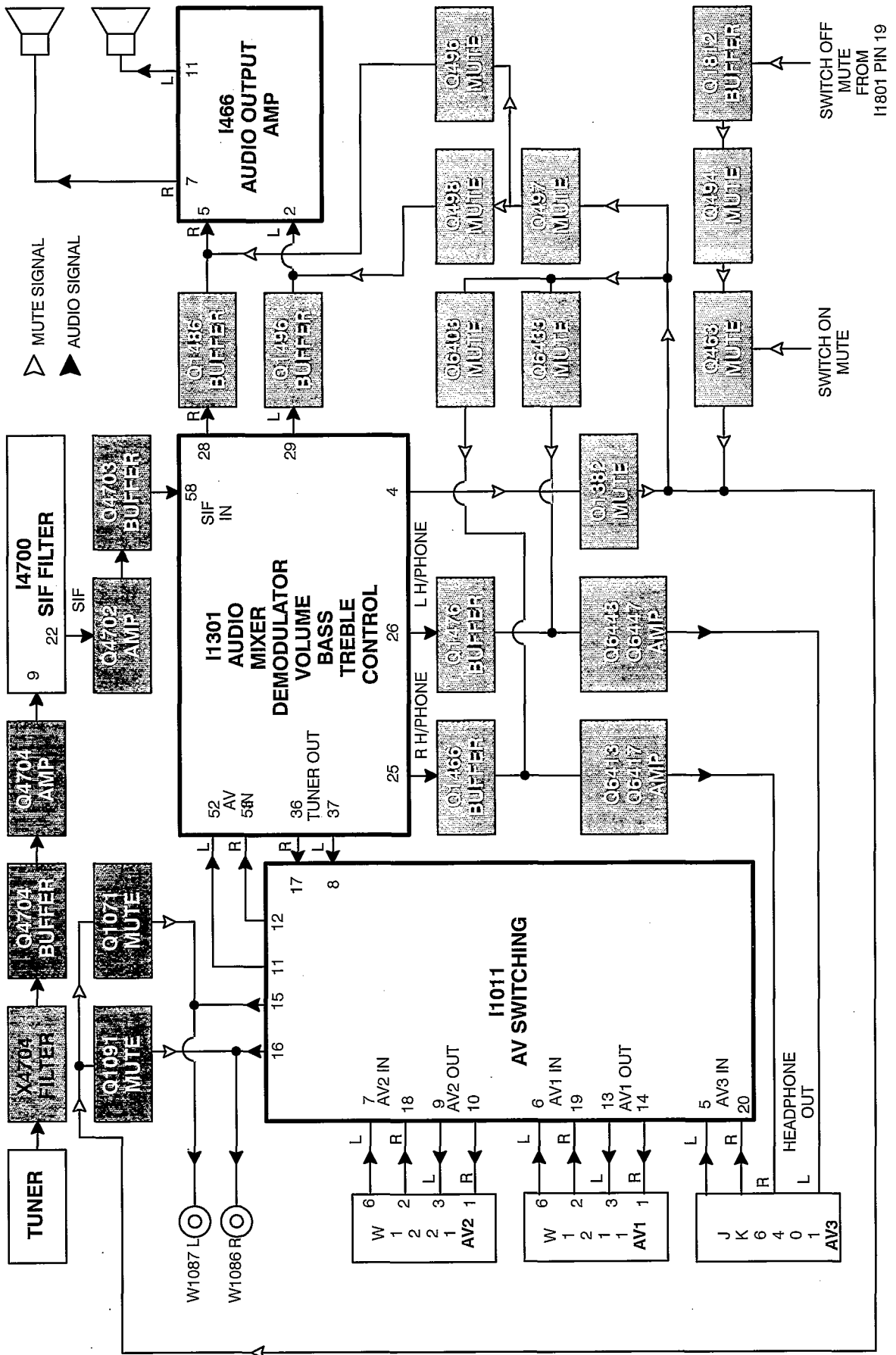
### WAVEFORM PATTERN TABLE



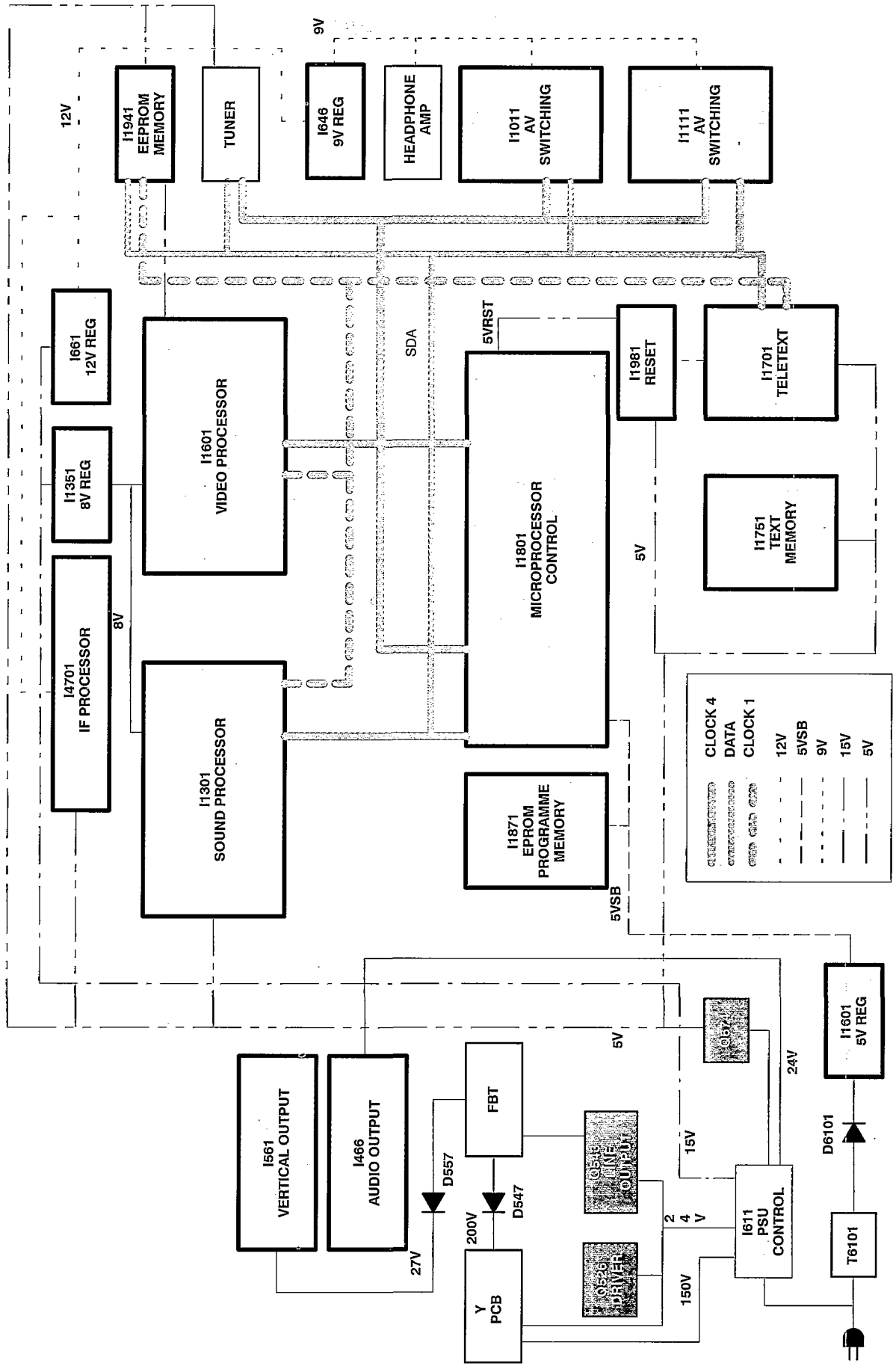
VIDEO BLOCK DIAGRAM



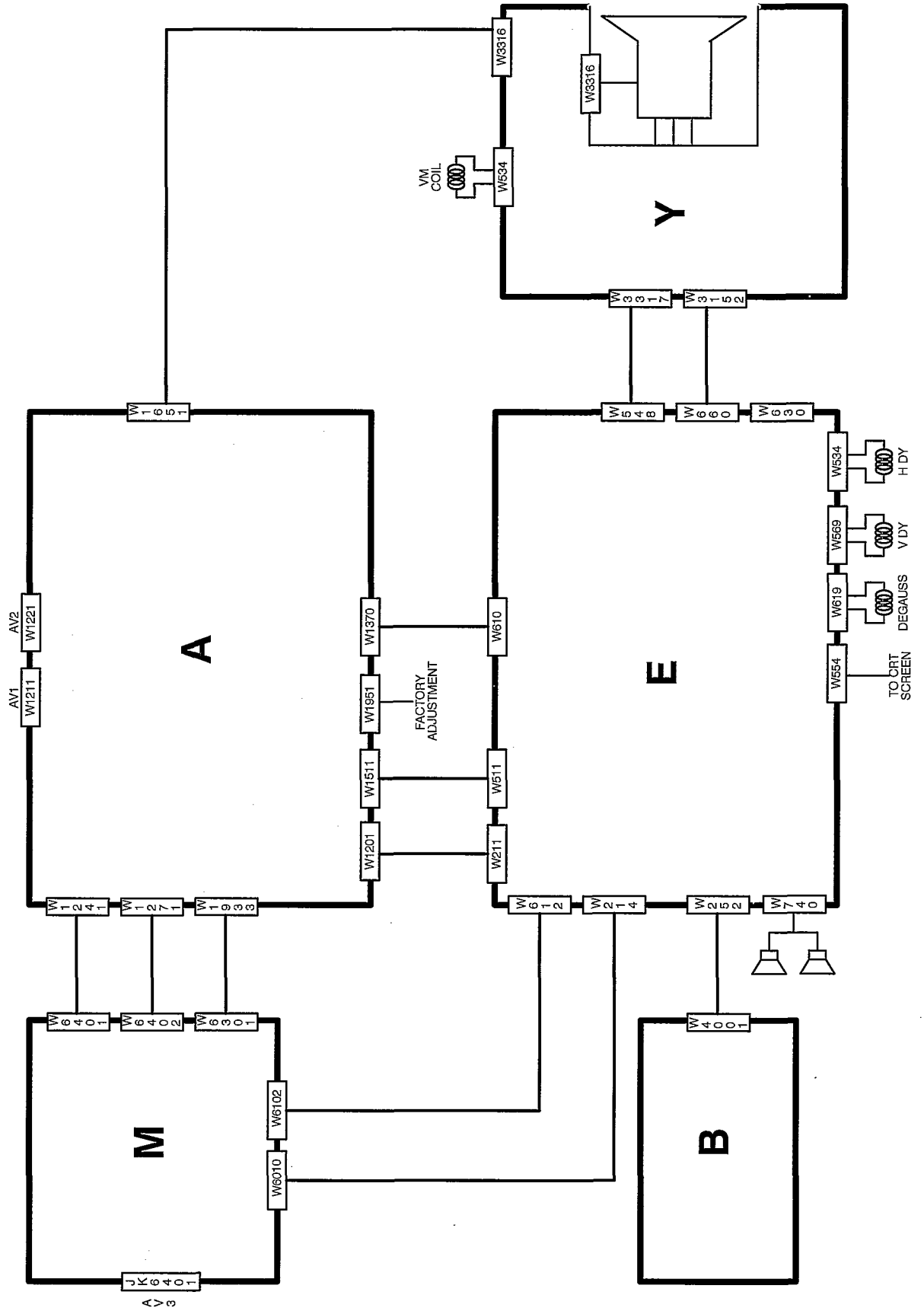
**AUDIO BLOCK DIAGRAM**



POWER SUPPLY AND CONTROL BLOCK DIAGRAM

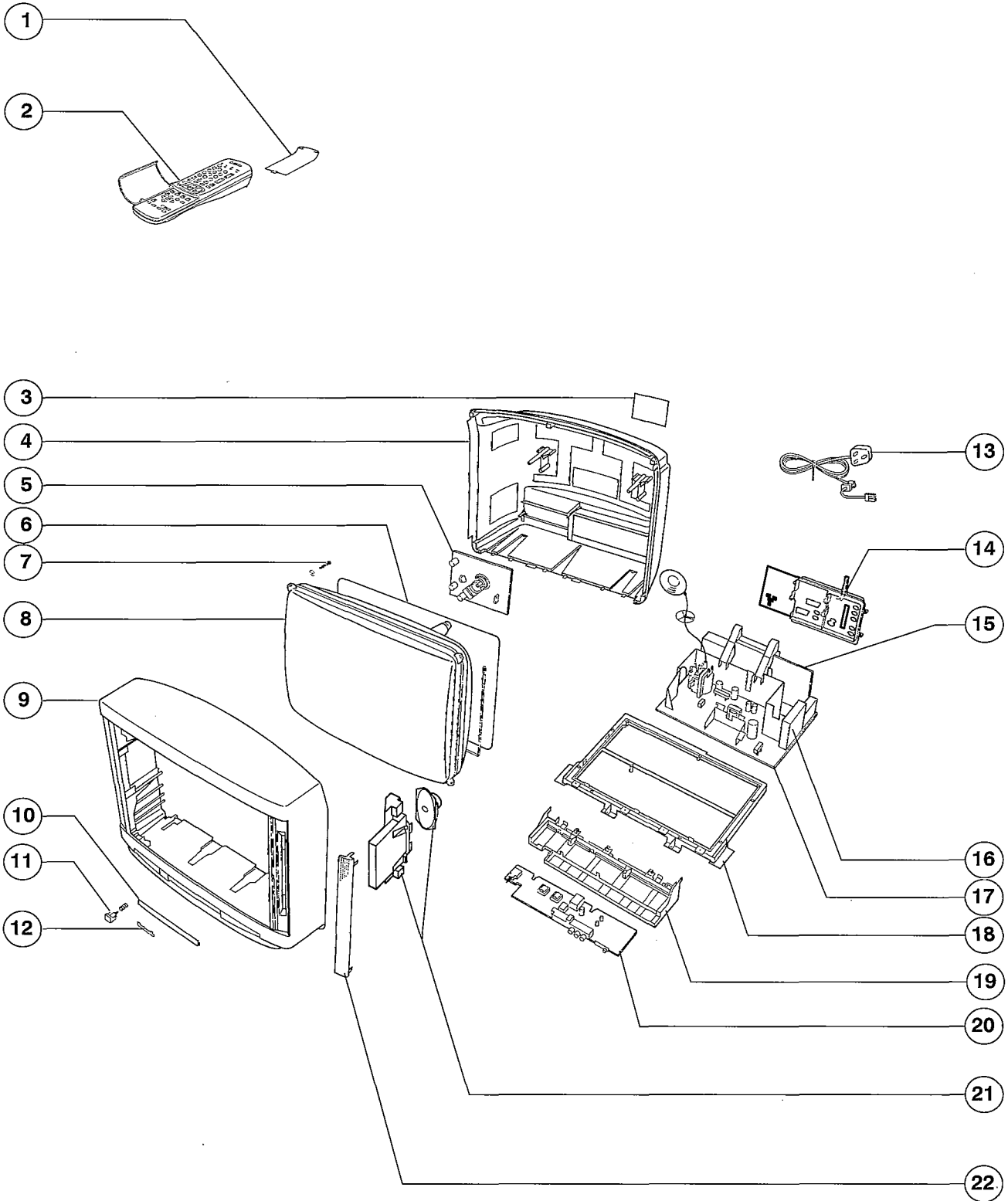


WIRING BLOCK DIAGRAM



# PARTS LOCATION

**NOTE :**  
The numbers on the exploded view below refer to the miscellaneous section of the Replacement Parts List.



## REPLACEMENT PARTS LIST

**Important Safety Notice**

Components identified by  $\Delta$  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

Ref No.	Part No.	Description
<b>MISCELLANEOUS COMPONENTS</b>		
1)	UR51EC780	BATTERY COVER (REMOTE)
2)	EUR51920	REMOTE CONTROL
3)	TBM8E1714	MODEL LABEL
4)	TKU8E00270	REAR COVER $\Delta$
5)	TNP117037BG	Y P.C.B. $\Delta$
6)	TLK8E05135	DEGAUSS COIL $\Delta$
7)	THT1009R	CRT FIXING SCREW
8)	A68EHM69X23	C.R.T. $\Delta$
9)	TKY8E081	CABINET $\Delta$
10)	TKP8E1141	DOOR LID
11)	TBX8E032	POWER BUTTON
12)	TBM173052	PANASONIC BADGE
13)	TSX8E0018	POWER CORD $\Delta$
14)	TKP8E1145	AV PANEL
15)	TNP117034CC	A P.C.B. $\Delta$
16)	TNP117039AA	B P.C.B. $\Delta$
17)	TNP197087BW	E P.C.B. $\Delta$
18)	TMX8E012	CHASSIS FRAME
19)	TMW8E016-1	CONTROL BLOCK FRAME
20)	TNP8EM012AA	M P.C.B. $\Delta$
21)	EAGG1218E2	SPEAKER
22)	TKP8E1144	SPEAKER NET
	TBM8E1532-2	PRESET PANEL
	U944E/L	TUNER
	TEK6940	LID CATCHER
	TKK8E026	SPEAKER REFLECTOR
	TKP8E1142	PANEL RIGHT
	TKP8E1143	PANEL LEFT
	TMW8E017	L.E.D.HOLDER
	TPC8E4640	OUTER CARTON
	TPD8E617	CUSHION TOP
	TPD8E625	CUSHION (BOTTOM)
	31221212478	FIX CLIP
	TQB8E2483	INST BOOK $\Delta$
	UM-3DEP-2P	BATTERY
	ERC12GK825	SOLID 0.5W 10% 8M2 $\Omega$
<b>INTEGRATED CIRCUITS</b>		
I466	LA4282	AUDIO OUTPUT
I561	TDA8175-3	VERTICAL OUTPUT
I611	TDA4605-3	SWITCHABLE POWER SUPPLY
I646	L78M09MRB	9V REGULATOR
I661	LM317T	12V REGULATOR
I676	TL431ACLPM	COIL
I1011	TEA6420	AUDIO SWITCH
I1111	TEA6415C	VIDEO SWITCH
I1301	MSP3410BPPF7	AUDIO PROCESSOR
I1351	AN78L08TA	8V REGULATOR
I1601	VDP3108APPA1	VIDEO PROCESSOR
I1701	TPU3040-20	TEXT PROCESSOR
I1751	81C1000A-70P	DRAM
I1801	CCU3000I-07	CENTRAL CONTROL UNIT
I1802	MN1280R	RESET
I1871	27C010-A09AD	EPROM
I1941	X24D0701AA	EAROM
I1981	MN1280R	RESET
I4700	LA7577N	V.I.F.

Ref No.	Part No.	Description
I4701	AN78N12	12V REGULATOR
I4702	TSA5514AT/C2	A.F.C.CONTROL
I6101	AN78L05TA	5V REGULATOR
I6301	RPM-637CBRS1	LED RECEIVER
<b>LINKS</b>		
BC1	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 $\Omega$
BC2	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 $\Omega$
BC4	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 $\Omega$
BC5	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 $\Omega$
B11	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 $\Omega$
B12	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 $\Omega$
B15	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 $\Omega$
B16	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 $\Omega$
B17	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 $\Omega$
B18	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 $\Omega$
B19	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 $\Omega$
<b>CAPACITORS</b>		
C201	ECEA1HFQ101	ELECT 50V 100 $\mu$ F
C202	ECQB1H103J	FILM 50V 10nF
C203	ECA1CM221GB	ELECT 16V 220pF
C204	ECQB1H104J	FILM 50V 100nF
C206	222236516334	FILM 160V 330nF
C209	ECQB1H104J	FILM 50V 100nF
C226	ECQB1H104J	FILM 50V 100nF
C228	ECKC1H102J	CERAMIC 50V 1000pF
C461	ECKC1H821J	CERAMIC 50V 820pF
C462	ECA1EM101GB	ELECT 25V 1 $\mu$ F
C463	ECA1EM471GB	ELECT 25V 470pF
C464	ECQM1H104J	FILM 50V 100nF
C465	ECA1CM470GB	ELECT 16V 47 $\mu$ F
C466	ECEA1HU222	ELECT 50V 2200 $\mu$ F
C467	ECQB1H103J	FILM 50V 10nF
C468	ECBT1C222MR3	CERAMIC 16V 2200 $\mu$ F
C470	222236516224	FILM 160V 220nF
C471	ECA1HM010GB	ELECT 50V 1pF
C472	ECA1HM101GB	ELECT 50V 100pF
C473	ECEA1EGE222	ELECT 25V 2200 $\mu$ F
C476	ECA1HM4R7GB	ELECT 50V 4.7 $\mu$ F
C477	ECA1HM2R2GB	ELECT 50V 2.2 $\mu$ F
C479	222236576104	FILM 760V 100nF
C480	222236516224	FILM 160V 220nF
C481	ECA1HM010GB	ELECT 50V 1pF
C482	ECA1HM101GB	ELECT 50V 100pF
C483	ECEA1EGE222	ELECT 25V 2200 $\mu$ F
C486	ECA1HM4R7GB	ELECT 50V 4.7 $\mu$ F
C487	ECA1HM2R2GB	ELECT 50V 2.2 $\mu$ F
C489	222236576104	FILM 760V 100nF
C492	ECA1VM4R7GB	ELECT 35V 4.7 $\mu$ F
C495	ECA1EM101GB	ELECT 25V 1 $\mu$ F
C496	ECA1CM100GB	ELECT 16V 10pF
C501	ECKC1H103JB	CERAMIC 50V 10nF
C511	ECQM1H393J	FILM 50V 39nF
C521	ECEA1HU101	ELECT 50V 100 $\mu$ F
C524	222236516105	FILM 160V 1 $\mu$ F
C525	ECKC1H271J	CERAMIC 50V 270pF
C527	ECQM2683JZ	FILM 250V 68nF



Ref No.	Part No.	Description	
C531	ECQM2564KZ	FILM 250V 560nF	
C534	ECWH12H562J	CERAMIC 1250V 5600pF	△
C536	ECWH12H103J	FILM 1250V 10nF	△
C537	ECQF4273JZH	FILM 400V 27nF	
C538	ECWF2H514J	FILM 500V 510nF	△
C541	ECWF2H105J	FILM 500V 1000nF	△
C543	ECA2VM2R2B	ELECT 350V 2.2μF	
C544	ECKC3D152J	CERAMIC 2KV 1.5nF	△
C547	ECKC2H101J	CERAMIC 500V 100pF	△
C548	ECEA2EU220	ELECT 250V 22μF	
C549	ECEA2AU2R2	ELECT 100V 2.2μF	
C557	ECKC2H101J	CERAMIC 500V 100pF	△
C558	ECA1VM102GB	ELECT 35V 1nF	
C561	ECEA1VU222	ELECT 35V 2200μF	
C562	222236576104	FILM 760V 100nF	
C563	ECA1VM471GB	ELECT 35V 470pF	
C564	ECQB1H473K	FILM 50V 47nF	
C565	ECKC2H151J	CERAMIC 500V 150pF	△
C567	ECQB1H223K	FILM 50V 22nF	
C568	222236516224	FILM 160V 220nF	
C574	ECEA1VU332	ELECT 35V 3300μF	
C576	ECQM1H684J	FILM 50V 680nF	
C577	222236516105	FILM 160V 1μF	
C578	222236516154	FILM 160V 150nF	
C579	ECKC1H472J	CERAMIC 50V 4.7nF	
C583	ECQB1H333J	FILM 50V 33nF	
C591	ECA1HW4R7UE	ELECT 50V 4.7μF	
C592	ECA1CM330GB	ELECT 16V 33pF	
C593	ECKC1H103JB	CERAMIC 50V 10nF	
C594	ECKC1H103JB	CERAMIC 50V 10nF	
C595	ECQB1H102J	FILM 50V 1nF	
C596	ECQE2474KFW	FILM 200V 470nF	
C597	ECQB1H332K	FILM 50V 3.3nF	
C618	ECOS2GG181NG	ELECT 400V 180μF	△
C619	ECQE6104K	FILM 600V 100nF	△
C620	ECKC2H561J	CERAMIC 500V 560pF	△
C622	ECEA1HFS470	ELECT 50V 47μF	
C623	222236516224	FILM 160V 220nF	
C626	ECKC3D471JB	CERAMIC 2KV 470pF	△
C628	ECKC1H221J	CERAMIC 50V 220pF	
C629	ECQB1H153K	FILM 50V 15nF	
C631	ECQB1H472J	FILM 50V 4.7nF	
C632	ECQB1H103J	FILM 50V 10nF	
C634	ECEA1HGE010	ELECT 50V 1μF	
C636	ECKC2H472J	CERAMIC 500V 4.7nF	△
C637	ECQB1H222J	FILM 50V 2200pF	
C638	ECQF6333JZH	FILM 600V 33nF	
C639	ECKWNA222MECC	CERAMIC 2.2nF	
C647	222236516334	FILM 160V 330nF	
C650	ECKC3A471J	CERAMIC 1KV 470pF	△
C651	ECOS2EA221AB	ELECT 250V 220μF	
C656	ECKC2H681J	CERAMIC 500V 680pF	△
C657	ECEA1HU471	ELECT 50V 470μF	
C661	ECKC2H821J	CERAMIC 500V 820pF	△
C662	ECA1VM222GE	ELECT 35V 2.2nF	
C666	222236516224	FILM 160V 220nF	
C667	ECA1CM471GB	ELECT 16V 470pF	
C671	ECKC2H681J	CERAMIC 500V 680pF	△
C672	ECA1VM222GE	ELECT 35V 2.2nF	
C677	ECA1CM471GB	ELECT 16V 470pF	
C681	ECEA1EGE101	ELECT 25V 100μF	
C682	ECKC2H331J	CERAMIC 500V 330pF	△
C687	ECEA1HGE102	ELECT 50V 1000μF	
C1001	ECA1CM470GB	ELECT 16V 47μF	
C1002	ECUV1H104ZFX	S.M.CAP 50V 100nF	
C1011	ECA1CM470GB	ELECT 16V 47μF	
C1012	ECUV1H473ZFX	S.M.CAP 50V 47nF	
C1013	ECA1CM470GB	ELECT 16V 47μF	
C1019	ECA1CM470GB	ELECT 16V 47μF	
C1020	ECA1CM470GB	ELECT 16V 47μF	
C1021	ECA1HMR47GB	ELECT 50V 0.47μF	

Ref No.	Part No.	Description	
C1022	ECA1HMR47GB	ELECT 50V 0.47μF	
C1023	ECUV1H221JCX	S.M.CAP 50V 220pF	
C1024	ECUV1H221JCX	S.M.CAP 50V 220pF	
C1031	ECEA1HNR47	ELECT 50V 0.47μF	
C1032	ECA1HMR47GB	ELECT 50V 0.47μF	
C1033	ECUV1H221JCX	S.M.CAP 50V 220pF	
C1034	ECUV1H221JCX	S.M.CAP 50V 220pF	
C1036	ECA1CM470GB	ELECT 16V 47μF	
C1038	ECA1CM470GB	ELECT 16V 47μF	
C1041	ECUV1H103KBX	S.M.CAP 50V 10nF	
C1042	ECUV1H103KBX	S.M.CAP 50V 10nF	
C1043	ECA1HMR47GB	ELECT 50V 0.47μF	
C1044	ECA1HMR47GB	ELECT 50V 0.47μF	
C1045	ECUV1H560JCX	S.M.CAP 50V 56pF	
C1051	ECEA1HNR33	ELECT 50V 0.33μF	
C1052	ECEA1HNR33	ELECT 50V 0.33μF	
C1071	ECEA1CN470	ELECT 16V 47μF	
C1091	ECA1CM470GB	ELECT 16V 47μF	
C1101	ECA1HMR47GB	ELECT 50V 0.47μF	
C1111	ECA1HM470GB	ELECT 50V 47μF	
C1112	ECUV1H473ZFX	S.M.CAP 50V 47nF	
C1116	ECUV1H473ZFX	S.M.CAP 50V 47nF	
C1121	ECA1HMR47GB	ELECT 50V 0.47μF	
C1124	ECUV1H473ZFX	S.M.CAP 50V 47nF	
C1126	ECA1CM470GB	ELECT 16V 47μF	
C1151	ECUV1H102KBX	S.M.CAP 50V 1nF	
C1158	ECA1HMR47GB	ELECT 50V 0.47μF	
C1161	ECUV1H102KBX	S.M.CAP 50V 1nF	
C1178	ECUV1H473ZFX	S.M.CAP 50V 47nF	
C1179	ECA1CM470GB	ELECT 16V 47μF	
C1183	ECUV1H104ZFX	S.M.CAP 50V 100nF	
C1193	ECUV1H104ZFX	S.M.CAP 50V 100nF	
C1226	ECUV1H560JCX	S.M.CAP 50V 56pF	
C1231	ECUV1H104ZFX	S.M.CAP 50V 100nF	
C1241	ECUV1H472KBX	S.M.CAP 50V 4.7nF	
C1242	ECUV1H472KBX	S.M.CAP 50V 4.7nF	
C1263	ECUV1H102KBX	S.M.CAP 50V 1nF	
C1271	ECUV1H102KBX	S.M.CAP 50V 1nF	
C1273	ECA1HMR47GB	ELECT 50V 0.47μF	
C1282	ECA1HMR47GB	ELECT 50V 0.47μF	
C1284	ECA1HMR47GB	ELECT 50V 0.47μF	
C1301	ECA1CM100GB	ELECT 16V 10pF	
C1302	ECUV1H104ZFX	S.M.CAP 50V 100nF	
C1303	ECA1CM100GB	ELECT 16V 10pF	
C1304	ECUV1H104ZFX	S.M.CAP 50V 100nF	
C1306	ECA1HM101GB	ELECT 50V 100pF	
C1307	ECUV1H104ZFX	S.M.CAP 50V 100nF	
C1309	ECA1CM100GB	ELECT 16V 10pF	
C1310	ECA1CM100GB	ELECT 16V 10pF	
C1311	ECUV1H104ZFX	S.M.CAP 50V 100nF	
C1312	ECEA50Y3R3	ELECT 50V 3.3μF	
C1313	ECUV1H471JCX	S.M.CAP 50V 470pF	
C1314	ECUV1H471JCX	S.M.CAP 50V 470pF	
C1315	ECA1CM100GB	ELECT 16V 10pF	
C1316	ECUV1H104ZFX	S.M.CAP 50V 100nF	
C1321	ECUV1H010CCX	S.M.CAP 50V 1pF	
C1322	ECUV1H010CCX	S.M.CAP 50V 1pF	
C1326	ECQM1H334J	FILM 50V 330nF	
C1327	ECUV1H221JCX	S.M.CAP 50V 220pF	
C1331	ECUV1H391JCX	S.M.CAP 50V 390pF	
C1332	ECUV1H391JCX	S.M.CAP 50V 390pF	
C1346	ECUV1H221JCX	S.M.CAP 50V 220pF	
C1347	ECUV1H221JCX	S.M.CAP 50V 220pF	
C1351	ECA1CM470GB	ELECT 16V 47μF	
C1352	ECUV1H104ZFX	S.M.CAP 50V 100nF	
C1353	ECUV1H104ZFX	S.M.CAP 50V 100nF	
C1371	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω	
C1377	ECUV1H104ZFX	S.M.CAP 50V 100nF	
C1382	ECUV1H104ZFX	S.M.CAP 50V 100nF	
C1409	ECUV1H470JCX	S.M.CAP 50V 47pF	
C1411	ECUV1H070DCX	S.M.CAP 50V 7pF	
C1412	ECUV1H100DCX	S.M.CAP 50V 10pF	

Ref No.	Part No.	Description
C1413	ECUV1H220JCX S.M.CAP	50V 22pF
C1416	ECUV1H070DCX S.M.CAP	50V 7pF
C1417	ECUV1H560JCX S.M.CAP	50V 56pF
C1444	ECUV1H102KBX S.M.CAP	50V 1nF
C1454	ECUV1H102KBX S.M.CAP	50V 1nF
C1463	ECUV1H102KBX S.M.CAP	50V 1nF
C1465	ECUV1H560JCX S.M.CAP	50V 56pF
C1467	ECUV1H102KBX S.M.CAP	50V 1nF
C1468	ECUV1H102KBX S.M.CAP	50V 1nF
C1473	ECUV1H102KBX S.M.CAP	50V 1nF
C1475	ECUV1H560JCX S.M.CAP	50V 56pF
C1483	ECUV1H102KBX S.M.CAP	50V 1nF
C1487	ECUV1H103KBX S.M.CAP	50V 10nF
C1493	ECUV1H102KBX S.M.CAP	50V 1nF
C1497	ECUV1H103KBX S.M.CAP	50V 10nF
C1601	ECA1CM470GB ELECT	16V 47μF
C1602	ECUV1H103KBX S.M.CAP	50V 10nF
C1606	ECA0JM102GB ELECT	6.3V 1nF
C1607	ECUV1H103KBX S.M.CAP	50V 10nF
C1608	ECUV1H040CCX S.M.CAP	50V 4pF
C1609	ECUV1H040CCX S.M.CAP	50V 4pF
C1611	ECA1CM470GB ELECT	16V 47μF
C1612	ECUV1H103KBX S.M.CAP	50V 10nF
C1613	ECA1CM100GB ELECT	16V 10pF
C1614	ECUV1H473ZFX S.M.CAP	50V 47nF
C1615	ECUV1H103KBX S.M.CAP	50V 10nF
C1616	ECUV1H101JCX S.M.CAP	50V 100pF
C1617	ECUV1H470JCX S.M.CAP	50V 47pF
C1618	ECUV1H470JCX S.M.CAP	50V 47pF
C1619	ECUV1H103KBX S.M.CAP	50V 10nF
C1620	ECUV1H102KBX S.M.CAP	50V 1nF
C1621	ECUV1H103KBX S.M.CAP	50V 10nF
C1622	ECA0JM102GB ELECT	6.3V 1nF
C1625	ERJ6GEYJ151 S.M.CARB	0.1W 5% 150Ω
C1626	ECUV1H104ZFX S.M.CAP	50V 100nF
C1627	ECEA1HNR47 ELECT	50V 0.47μF
C1628	ECA0JM102GB ELECT	6.3V 1nF
C1641	ECUV1H104ZFX S.M.CAP	50V 100nF
C1651	ECUV1H104ZFX S.M.CAP	50V 100nF
C1652	ECUV1H104ZFX S.M.CAP	50V 100nF
C1653	ECUV1H104ZFX S.M.CAP	50V 100nF
C1655	ECA1CM470GB ELECT	16V 47μF
C1661	ECUV1H102KBX S.M.CAP	50V 1nF
C1662	ECUV1H683ZFX S.M.CAP	50V 68nF
C1663	ECUV1H102KBX S.M.CAP	50V 1nF
C1666	ECUV1H102KBX S.M.CAP	50V 1nF
C1667	ECUV1H683ZFX S.M.CAP	50V 68nF
C1668	ECUV1H104ZFX S.M.CAP	50V 100nF
C1672	ECA0JM101G ELECT	6.3V 100pF
C1673	ECUV1H104ZFX S.M.CAP	50V 100nF
C1681	ECUV1H102KBX S.M.CAP	50V 1nF
C1682	ECUV1H102KBX S.M.CAP	50V 1nF
C1685	ECUV1H102KBX S.M.CAP	50V 1nF
C1686	ECUV1H271JCX S.M.CAP	50V 270pF
C1687	ECUV1H121JCX S.M.CAP	50V 120pF
C1688	ECUV1H471JCX S.M.CAP	50V 470pF
C1691	ECUV1H104ZFX S.M.CAP	50V 100nF
C1692	ECUV1H104ZFX S.M.CAP	50V 100nF
C1693	ECUV1H104ZFX S.M.CAP	50V 100nF
C1696	ECUV1H102KBX S.M.CAP	50V 1nF
C1697	ECUV1H100DCX S.M.CAP	50V 10pF
C1698	ECUV1H102KBX S.M.CAP	50V 1nF
C1699	ECUV1H100DCX S.M.CAP	50V 10pF
C1701	ECA1CM470GB ELECT	16V 47μF
C1702	ECUV1H103KBX S.M.CAP	50V 10nF
C1704	ECA1CM470GB ELECT	16V 47μF
C1706	ECUV1H104ZFX S.M.CAP	50V 100nF
C1714	ECUV1H103KBX S.M.CAP	50V 10nF
C1717	ECUV1H102KBX S.M.CAP	50V 1nF
C1721	ECUV1H473ZFX S.M.CAP	50V 47nF
C1722	ECUV1H102KBX S.M.CAP	50V 1nF
C1752	ECUV1H103KBX S.M.CAP	50V 10nF

Ref No.	Part No.	Description
C1753	ECA1CM100GB ELECT	16V 10pF
C1801	ECUV1H103KBX S.M.CAP	50V 10nF
C1802	ECA0JM471GB ELECT	6.3V 470pF
C1804	ECUV1H103KBX S.M.CAP	50V 10nF
C1811	ECUV1H332KBX S.M.CAP	50V 3.3nF
C1816	ERJ6GEYJ153 S.M.CARB	0.1W 5% 15KΩ
C1826	ERJ6GEYJ153 S.M.CARB	0.1W 5% 15KΩ
C1836	ECUV1H104ZFX S.M.CAP	50V 100nF
C1838	ECUV1H101JCX S.M.CAP	50V 100pF
C1843	ECUV1H472KBX S.M.CAP	50V 4.7nF
C1845	ECUV1H560JCX S.M.CAP	50V 56pF
C1849	ECKC1H102J CERAMIC	50V 1000pF
C1851	ECUV1H470JCX S.M.CAP	50V 47pF
C1852	ECUV1H390JCX S.M.CAP	50V 39pF
C1853	ECUV1H390JCX S.M.CAP	50V 39pF
C1857	ECUV1H560JCX S.M.CAP	50V 56pF
C1859	ECUV1H560JCX S.M.CAP	50V 56pF
C1871	ECUV1H103KBX S.M.CAP	50V 10nF
C1879	ECUV1H560JCX S.M.CAP	50V 56pF
C1888	ECUV1H103KBX S.M.CAP	50V 10nF
C1891	ECUV1H102KBX S.M.CAP	50V 1nF
C1893	ECUV1H102KBX S.M.CAP	50V 1nF
C1894	ECUV1H102KBX S.M.CAP	50V 1nF
C1922	ECUV1H103KBX S.M.CAP	50V 10nF
C1925	ECUV1H103KBX S.M.CAP	50V 10nF
C1931	ECUV1H103KBX S.M.CAP	50V 10nF
C1941	ECUV1H103KBX S.M.CAP	50V 10nF
C1942	ECA1CM470GB ELECT	16V 47μF
C1961	ECUV1C104KBX S.M.CAP	16V 0.10μF
C1962	ECUV1C104KBX S.M.CAP	16V 0.10μF
C1963	ECUV1C104KBX S.M.CAP	16V 0.10μF
C1964	ECUV1C104KBX S.M.CAP	16V 0.10μF
C1971	ECUV1H104ZFX S.M.CAP	50V 100nF
C1972	ECA1CM470GB ELECT	16V 47μF
C1973	ECUV1H104ZFX S.M.CAP	50V 100nF
C1974	ECUV1H104ZFX S.M.CAP	50V 100nF
C1976	ECUV1H104ZFX S.M.CAP	50V 100nF
C1977	ECA0JM471GB ELECT	6.3V 470pF
C1981	ECUV1H104ZFX S.M.CAP	50V 100nF
C1982	ECUV1H101JCX S.M.CAP	50V 100pF
C3101	ECUV1H030CCX S.M.CAP	50V 30pF
C3102	ECUV1H103ZFX S.M.CAP	50V 10nF
C3103	ECA1HM100GB ELECT	50V 10pF
C3122	ECUV1H102KBX S.M.CAP	50V 1nF
C3124	ECUV1H471JCX S.M.CAP	50V 470pF
C3131	ECKC2H471J CERAMIC	500V 470pF
C3134	ECA1HM101GB ELECT	50V 100pF
C3136	ECKC2H471J CERAMIC	500V 470pF
C3139	ECA1HM101GB ELECT	50V 100pF
C3141	ECA1CM471GB ELECT	16V 470pF
C3143	ECA1CM100GB ELECT	16V 10pF
C3144	ECA1CM470GB ELECT	16V 47μF
C3146	ECEA2EU220 ELECT	250V 22μF
C3152	ECEA2EU220 ELECT	250V 22μF
C3153	ECA1VM101GB ELECT	35V 100pF
C3167	ECUV1H100DCX S.M.CAP	50V 10pF
C3168	ECUV1H103ZFX S.M.CAP	50V 10nF
C3169	ECA1CM100GB ELECT	16V 10pF
C3177	ECUV1H150JCX S.M.CAP	50V 15pF
C3178	ECUV1H103ZFX S.M.CAP	50V 10nF
C3179	ECA1CM100GB ELECT	16V 10pF
C3187	ECUV1H270JCX S.M.CAP	50V 27pF
C3188	ECUV1H103ZFX S.M.CAP	50V 10nF
C3189	ECA1CM100GB ELECT	16V 10pF
C3356	ECA1CM220GB ELECT	16V 22μF
C3357	ECUV1H104ZFX S.M.CAP	50V 100nF
C3362	TACA1103P2KV I.C.	
C3363	TACA1103P2KV I.C.	
C3366	ECEA2EU220 ELECT	250V 22μF
C3367	ECQM2104KZ FILM	250V 100nF
C3369	ECA1HM010GB ELECT	50V 1pF
C3371	ECUV1H150JCX S.M.CAP	50V 15pF

Ref No.	Part No.	Description
C3373	ECUV1H104ZFX	S.M.CAP 50V 100nF
C3377	ECUV1H681JCX	S.M.CAP 50V 680pF
C3383	ECUV1H104ZFX	S.M.CAP 50V 100nF
C3387	ECUV1H681JCX	S.M.CAP 50V 680pF
C3392	ECA1CM471GB	ELECT 16V 470pF
C3393	ECUV1H104ZFX	S.M.CAP 50V 100nF
C3397	ECUV1H681JCX	S.M.CAP 50V 680pF
C3398	ECKC1H102J	CERAMIC 50V 1000pF
C4701	ECUV1H151JCX	S.M.CAP 50V 150pF
C4702	ECUV1H331JCX	S.M.CAP 50V 330pF
C4703	ECEA1HKAR47	ELECT 50V 0.47μF
C4704	ECUV1H104ZFX	S.M.CAP 50V 100nF
C4705	ECUV1H104ZFX	S.M.CAP 50V 100nF
C4706	ECUV1H104ZFX	S.M.CAP 50V 100nF
C4707	ECUV1H104ZFX	S.M.CAP 50V 100nF
C4708	ECEA1CKA100	ELECT 16V 10μF
C4709	ECUV1H104ZFX	S.M.CAP 50V 100nF
C4710	ECEA1CKA100	ELECT 16V 10μF
C4711	ECUV1H390JPX	S.M.CAP 50V 39pF
C4712	ECUV1H150JCX	S.M.CAP 50V 15pF
C4713	ECUV1H104ZFX	S.M.CAP 50V 100nF
C4714	ECEA1EKA100	ELECT 25V 10μF
C4715	ECUV1H104ZFX	S.M.CAP 50V 100nF
C4716	ECEA1CKA100	ELECT 16V 10μF
C4717	ECUV1H683ZFX	S.M.CAP 50V 68nF
C4718	ECUV1H102KBX	S.M.CAP 50V 1nF
C4719	ECEA1HKAR47	ELECT 50V 0.47μF
C4720	ECUV1H104ZFX	S.M.CAP 50V 100nF
C4721	ECEA1HKA2R2	ELECT 50V 2.2μF
C4722	ECUV1H104ZFX	S.M.CAP 50V 100nF
C4723	ECUV1H104ZFX	S.M.CAP 50V 100nF
C4724	ECUV1H104ZFX	S.M.CAP 50V 100nF
C4725	ECUV1H104ZFX	S.M.CAP 50V 100nF
C4726	ECEA1CKA470	ELECT 16V 47μF
C4727	ECUV1H104ZFX	S.M.CAP 50V 100nF
C4728	ECEA1CKA100	ELECT 16V 10μF
C4733	ECUV1H270JPX	S.M.CAP 50V 27pF
C4735	ECUV1H104ZFX	S.M.CAP 50V 100nF
C4736	ECUV1H104ZFX	S.M.CAP 50V 100nF
C4737	ECUV1H104ZFX	S.M.CAP 50V 100nF
C4738	ECUV1H104ZFX	S.M.CAP 50V 100nF
C4739	ECUV1H104ZFX	S.M.CAP 50V 100nF
C4740	ECUV1H104ZFX	S.M.CAP 50V 100nF
C4742	ECUV1H100DCX	S.M.CAP 50V 10pF
C4743	ECUV1H100DCX	S.M.CAP 50V 10pF
C4745	ECUV1H102KBX	S.M.CAP 50V 1nF
C4746	ECUV1H104ZFX	S.M.CAP 50V 100nF
C4747	ECUV1H102KBX	S.M.CAP 50V 1nF
C4748	ECUV1H102KBX	S.M.CAP 50V 1nF
C4749	ECUV1H102KBX	S.M.CAP 50V 1nF
C4790	ECEA1HKA010	ELECT 50V 1μF
C6101	ECEA1HU471	ELECT 50V 470μF
C6102	ECQM1H334J	FILM 50V 330nF
C6103	ECQM1H104J	FILM 50V 100nF
C6104	ECAOJM222GB	ELECT 6.3V 2.2nF
C6106	ECEA1HU101	ELECT 50V 100μF
C6301	ECA1CM470GB	ELECT 16V 47μF
C6303	ECUV1H103ZFX	S.M.CAP 50V 10nF
C6401	ECA1HM101GB	ELECT 50V 100pF
C6402	ECA1HM101GB	ELECT 50V 100pF
C6403	ECUV1H103ZFX	S.M.CAP 50V 10nF
C6406	ECA1HM4R7GB	ELECT 50V 4.7μF
C6407	ECUV1H102KBX	S.M.CAP 50V 1nF
C6408	ECA1HM4R7GB	ELECT 50V 4.7μF
C6409	ECUV1H561JCX	S.M.CAP 50V 560pF
C6410	ECUV1H561JCX	S.M.CAP 50V 560pF
C6417	ECA1CM471GB	ELECT 16V 470pF
C6418	ECUV1H103ZFX	S.M.CAP 50V 10nF
C6436	ECA1HM4R7GB	ELECT 50V 4.7μF
C6437	ECUV1H102KBX	S.M.CAP 50V 1nF
C6438	ECA1HM4R7GB	ELECT 50V 4.7μF
C6447	ECA1CM471GB	ELECT 16V 470pF

Ref No.	Part No.	Description
C6448	ECUV1H103ZFX	S.M.CAP 50V 10nF
C6491	ECUV1H271JCX	S.M.CAP 50V 270pF
C6591	ECUV1H271JCX	S.M.CAP 50V 270pF
C6812	222233510154	FILM 0.15μF
C6815	222233510224	FILM 0.22μF
<b>DIODES</b>		
D206	MA4300	DIODE
D465	MA165TA5	DIODE 1SS133T-77
D466	MA165TA5	DIODE 1SS133T-77
D467	MA165TA5	DIODE 1SS133T-77
D468	MA165TA5	DIODE 1SS133T-77
D471	MA700TA5	DIODE
D481	MA700TA5	DIODE
D491	MA167TA5	DIODE
D507	MA723TA5	DIODE
D508	MA723TA5	DIODE
D521	MA170	DIODE
D526	MA165TA5	DIODE 1SS133T-77
D527	EU02	DIODE
D536	ERB0615	DIODE TYPD0753VAG
D537	TVSRU2AM	DIODE
D544	TVSRC2V1	DIODE
D547	AU02V0	DIODE
D548	MA165TA5	DIODE 1SS133T-77
D549	MA167TA5	DIODE
D557	EU02	DIODE
D561	ERA15-02V3	DIODE
D562	MA165TA5	DIODE 1SS133T-77
D563	MA165TA5	DIODE 1SS133T-77
D564	MTZJ33B	DIODE
D566	MA2082ALFS	DIODE
D567	MTZJT776.2B	DIODE
D568	MA2100LFS	DIODE
D569	MA2082ALFS	DIODE
D591	MTZJT7739D	DIODE
D613	RBV4-08	DIODE
D622	MA171TA5	DIODE
D624	BYT56K15/10	DIODE
D630	MA165TA5	DIODE 1SS133T-77
D636	MA167TA5	DIODE
D651	RG4CLFL1	DIODE
D656	EU02	DIODE
D661	ERD32-02L7	DIODE
D671	ERD32-02L7	DIODE
D674	MTZJT-7712C	DIODE
D678	MTZJT772.7B	DIODE
D681	EU02	DIODE
D686	RU4AMLF-M1	DIODE
D1019	PMLL5242B	DIODE
D1020	PMLL5242B	DIODE
D1023	PMLL5242B	DIODE
D1024	PMLL5242B	DIODE
D1033	PMLL5242B	DIODE
D1034	PMLL5242B	DIODE
D1036	PMLL5242B	DIODE
D1038	PMLL5242B	DIODE
D1070	PMLL5242B	DIODE
D1080	RLS72TE-11	DIODE OR PMLL4148
D1081	RLS72TE-11	DIODE OR PMLL4148
D1082	RLS72TE-11	DIODE OR PMLL4148
D1090	PMLL5242B	DIODE
D1121	PMLL5242B	DIODE
D1123	PMLL5242B	DIODE
D1156	PMLL5242B	DIODE
D1158	PMLL5242B	DIODE
D1172	PMLL5242B	DIODE
D1221	PMLL5232B	DIODE
D1222	PMLL5232B	DIODE
D1270	PMLL5242B	DIODE

Ref No.	Part No.	Description		
D1273	PMLL5242B	DIODE		
D1282	PMLL5242B	DIODE		
D1284	PMLL5242B	DIODE		
D1381	PMLL5239B	DIODE		
D1382	RLS72TE-11	DIODE OR PMLL4148		
D1601	RLS72TE-11	DIODE OR PMLL4148		
D1614	RLS72TE-11	DIODE OR PMLL4148		
D1617	RLS72TE-11	DIODE OR PMLL4148		
D1623	RLS72TE-11	DIODE OR PMLL4148		
D1624	RLS72TE-11	DIODE OR PMLL4148		
D1672	RLS72TE-11	DIODE OR PMLL4148		
D1681	RLS72TE-11	DIODE OR PMLL4148		
D1682	RLS72TE-11	DIODE OR PMLL4148		
D1717	RLS72TE-11	DIODE OR PMLL4148		
D1941	PMLL5232B	DIODE		
D3126	RLS72TE-11	DIODE OR PMLL4148		
D3127	RLS72TE-11	DIODE OR PMLL4148		
D3133	RLS72TE-11	DIODE OR PMLL4148		
D3138	RLS72TE-11	DIODE OR PMLL4148		
D3368	RLS72TE-11	DIODE OR PMLL4148		
D3372	MA165TA5	DIODE 1SS133T-77		
D3373	RLS72TE-11	DIODE OR PMLL4148		
D3374	RLS72TE-11	DIODE OR PMLL4148		
D3377	RLS72TE-11	DIODE OR PMLL4148		
D3382	MA165TA5	DIODE 1SS133T-77		
D3383	RLS72TE-11	DIODE OR PMLL4148		
D3384	RLS72TE-11	DIODE OR PMLL4148		
D3387	RLS72TE-11	DIODE OR PMLL4148		
D3391	MA165TA5	DIODE 1SS133T-77		
D3392	MA165TA5	DIODE 1SS133T-77		
D3393	RLS72TE-11	DIODE OR PMLL4148		
D3394	RLS72TE-11	DIODE OR PMLL4148		
D3397	RLS72TE-11	DIODE OR PMLL4148		
D6101	TVSS1WBS20	DIODE		
D6103	RLS72TE-11	DIODE OR PMLL4148		
D6106	RLS72TE-11	DIODE OR PMLL4148		
D6301	LN81RPHL	DIODE		
D6381	RLS72TE-11	DIODE OR PMLL4148		
D6382	RLS72TE-11	DIODE OR PMLL4148		
D6391	RLS72TE-11	DIODE OR PMLL4148		
D6392	RLS72TE-11	DIODE OR PMLL4148		
D6491	RLS72TE-11	DIODE OR PMLL4148		
D6492	RLS72TE-11	DIODE OR PMLL4148		
D6591	RLS72TE-11	DIODE OR PMLL4148		
D6592	RLS72TE-11	DIODE OR PMLL4148		
<b>FUSES</b>				
F547	TR5-T2000	FUSE	▲	
F656	TR5-T1250	FUSE	▲	
F661	TR5-T2000	FUSE	▲	
F671	TR5-T2000	FUSE	▲	
F6811	2153.15H	FUSE	▲	
F68111	EYF52BC	FUSE HOLDER		
F68112	EYF52BC	FUSE HOLDER		
<b>SOCKETS</b>				
H1871	832AG11D-ESL	I.C.SOCKET		
<b>TERMINALS AND LINKS</b>				
JC1001	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1002	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1003	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1004	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1005	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1006	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1007	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω

Ref No.	Part No.	Description		
JC1008	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1009	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1010	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1011	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1012	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1013	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1014	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1015	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1016	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1017	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1018	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1019	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1020	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1021	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1022	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1023	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1024	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1025	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1026	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1027	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1029	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1030	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1031	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1032	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1033	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1034	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1035	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1036	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1037	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1040	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1041	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1042	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1043	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1044	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1045	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1047	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1048	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1049	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1050	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1051	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1052	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1053	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1054	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1055	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1056	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1057	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1058	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1059	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1060	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1061	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1062	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1064	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1065	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1066	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1067	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1068	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1069	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1070	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1071	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1072	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1073	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1074	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1075	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1076	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1077	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1078	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω
JC1079	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1080	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1081	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1082	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1083	ERJ8GEY0R00	S.M.CAR .125W	5%	0Ω
JC1084	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω

Ref No.	Part No.	Description
JC1085	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JC1086	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JC1087	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JC1088	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JC1089	ERJ8GEY0R00	S.M.CAR .125W 5% 0Ω
JC1090	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JC1091	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JC1093	ERJ8GEY0R00	S.M.CAR .125W 5% 0Ω
JC1094	ERJ8GEY0R00	S.M.CAR .125W 5% 0Ω
JC1095	ERJ8GEY0R00	S.M.CAR .125W 5% 0Ω
JC1096	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JC1097	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JC1098	ERJ8GEY0R00	S.M.CAR .125W 5% 0Ω
JC1099	ERJ8GEY0R00	S.M.CAR .125W 5% 0Ω
JC1100	ERJ8GEY0R00	S.M.CAR .125W 5% 0Ω
JC1101	ERJ8GEY0R00	S.M.CAR .125W 5% 0Ω
JC1102	ERJ8GEY0R00	S.M.CAR .125W 5% 0Ω
JC1103	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JC1104	ERJ8GEY0R00	S.M.CAR .125W 5% 0Ω
JC1105	ERJ8GEY0R00	S.M.CAR .125W 5% 0Ω
JC1106	ERJ8GEY0R00	S.M.CAR .125W 5% 0Ω
JC1107	ERJ8GEY0R00	S.M.CAR .125W 5% 0Ω
JC1108	ERJ8GEY0R00	S.M.CAR .125W 5% 0Ω
JC1109	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JC1111	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JC1112	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JC1113	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JC1114	ERJ8GEY0R00	S.M.CAR .125W 5% 0Ω
JC1115	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JC1116	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JC1117	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JC1119	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JC1121	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JC1122	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JC1123	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JC1124	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JC1125	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JK6401	TJB16656	A.V.TERMINAL
J2	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
J12	EXCELSA39V	COIL
J23	EXCELSA39V	COIL
J204	EXCELSA35T	COIL

**COILS**

L204	ELER220KA	COIL
L206	EXCELSA35T	COIL
L231	EXCELSA24T	COIL
L507	TLT331K991R	COIL
L511	297-23477	COIL
L538	297-23293	COIL
L541	ELH5L7002	COIL
L542	ELC08D055	COIL
L554	ELER220KA	COIL
L594	297-017696	COIL
L624	EXCELSA35T	COIL
L626	EXCELSR35S	COIL
L650	EXCELD35C	COIL
L661	EXCELD35V	COIL
L671	EXCELD35V	COIL
L686	EXCELSA35T	COIL
L1037	TSC925-4	CHOKE
L1301	EXCELD35V	COIL
L1303	EXCELD35V	COIL
L1351	ELEV4R7KA	COIL
L1413	ELEV6R8KA	COIL
L1601	ELEV4R7KA	COIL
L1606	EXCELD35V	COIL
L1611	ELEV4R7KA	COIL
L1619	EXCELD35V	COIL
L1622	ELEV4R7KA	COIL

Ref No.	Part No.	Description
L1634	EXCEMT101BT	COIL
L1644	EXCEMT101BT	COIL
L1652	ELEV4R7KA	COIL
L1654	EXCEMT101BT	COIL
L1687	ELEMV1R5MA	COIL
L1691	EXCEMT101BT	COIL
L1692	EXCEMT101BT	COIL
L1693	EXCEMT101BT	COIL
L1694	EXCEMT101BT	COIL
L1701	ELEV4R7KA	COIL
L1714	EXCELD35V	COIL
L1751	EXCELD35V	COIL
L1801	ELEV4R7KA	COIL
L1837	EXCELD35V	COIL
L1845	ELEV3R3KA	COIL
L1857	ELEV3R3KA	COIL
L1859	ELEV3R3KA	COIL
L1871	EXCELD35V	COIL
L1878	ELEV3R3KA	COIL
L1888	ELEV4R7KA	COIL
L1931	ELEV4R7KA	COIL
L1941	EXCELD35V	COIL
L1972	EXCELD35V	COIL
L1974	EXCELD35V	COIL
L1977	EXCELD35V	COIL
L3161	SDL-4101	COIL
L3171	SDL-4101	COIL
L3181	SDL-4101	COIL
L4701	TLTR33K991R	COIL
L4703	TLTR39K991R	COIL
L4704	TLT022K991R	COIL
L4705	EIV7EN200B	COIL
L4706	EIV7EN201B	COIL
L4707	TLT100K991R	COIL
L4709	TLT181K991R	COIL
L6403	ELEBT6R8KA	COIL
L6404	ELEBT6R8KA	COIL
L6417	ELEBT6R8KA	COIL
L6447	ELEBT6R8KA	COIL
L6811	ELF18D415F	FILTER
L6812	ELF18D415F	FILTER

**CONTROLS**

P633	EVMEASA00B52	CONTROL 500Ω
P3362	RH092GDJ6J	VARIABLE RESISTOR
P3368	EVN65UA00B24	CONTROL 20KΩ
P4701	EVNDXAA03B53	CONTROL 5KΩ

**TRANSISTORS**

Q463	BC557B	TRANSISTOR
Q465	BC547B	TRANSISTOR
Q494	BC547B	TRANSISTOR
Q496	BC547B	TRANSISTOR
Q497	BC557B	TRANSISTOR
Q498	BC547B	TRANSISTOR
Q506	2SK301TA	TRANSISTOR
Q526	2SD836-AL	TRANSISTOR
Q534	BU2508AXRL	TRANSISTOR
Q591	BC557B	TRANSISTOR
Q592	BC557B	TRANSISTOR
Q593	BC547B	TRANSISTOR
Q594	2SD1265A	TRANSISTOR
Q624	2SK1118LB	TRANSISTOR
Q651	TFD312SOF632	DIODE
Q674	BUZ71AF1	TRANSISTOR
Q681	BC557B	TRANSISTOR
Q682	2SA1535LB	TRANSISTOR
Q1071	BC817-25	TRANSISTOR

Ref No.	Part No.	Description
Q1091	BC817-25	TRANSISTOR
Q1123	BC847B	TRANSISTOR OR 2SD601ATX
Q1163	BC847B	TRANSISTOR OR 2SD601ATX
Q1167	BC857B	TRANSISTOR OR 2SB709ATX
Q1172	BC847B	TRANSISTOR OR 2SD601ATX
Q1182	BC847B	TRANSISTOR OR 2SD601ATX
Q1192	BC847B	TRANSISTOR OR 2SD601ATX
Q1221	BC847B	TRANSISTOR OR 2SD601ATX
Q1222	BC847B	TRANSISTOR OR 2SD601ATX
Q1382	BC857B	TRANSISTOR OR 2SB709ATX
Q1466	BC860B	TRANSISTOR
Q1476	BC860B	TRANSISTOR
Q1486	BC860B	TRANSISTOR
Q1496	BC860B	TRANSISTOR
Q1612	BC847B	TRANSISTOR OR 2SD601ATX
Q1631	BC847B	TRANSISTOR OR 2SD601ATX
Q1633	BC847B	TRANSISTOR OR 2SD601ATX
Q1636	BC857B	TRANSISTOR OR 2SB709ATX
Q1641	BC847B	TRANSISTOR OR 2SD601ATX
Q1643	BC847B	TRANSISTOR OR 2SD601ATX
Q1646	BC857B	TRANSISTOR OR 2SB709ATX
Q1651	BC847B	TRANSISTOR OR 2SD601ATX
Q1653	BC847B	TRANSISTOR OR 2SD601ATX
Q1656	BC857B	TRANSISTOR OR 2SB709ATX
Q1663	BC847B	TRANSISTOR OR 2SD601ATX
Q1664	BC847B	TRANSISTOR OR 2SD601ATX
Q1667	BC847B	TRANSISTOR OR 2SD601ATX
Q1673	BC847B	TRANSISTOR OR 2SD601ATX
Q1812	BC847B	TRANSISTOR OR 2SD601ATX
Q1816	BC847B	TRANSISTOR OR 2SD601ATX
Q1822	BC847B	TRANSISTOR OR 2SD601ATX
Q1824	BC847B	TRANSISTOR OR 2SD601ATX
Q1827	BC857B	TRANSISTOR OR 2SB709ATX
Q1831	BC847B	TRANSISTOR OR 2SD601ATX
Q3108	BC847B	TRANSISTOR OR 2SD601ATX
Q3109	BC847B	TRANSISTOR OR 2SD601ATX
Q3111	BC857B	TRANSISTOR OR 2SB709ATX
Q3122	BC847B	TRANSISTOR OR 2SD601ATX
Q3126	BC847B	TRANSISTOR OR 2SD601ATX
Q3127	BC857B	TRANSISTOR OR 2SB709ATX
Q3131	2SB940APLB	TRANSISTOR
Q3136	2SD1264APLB	TRANSISTOR
Q3143	BC847B	TRANSISTOR OR 2SD601ATX
Q3162	BC857B	TRANSISTOR OR 2SB709ATX
Q3164	BC847B	TRANSISTOR OR 2SD601ATX
Q3166	BC857B	TRANSISTOR OR 2SB709ATX
Q3169	BC857B	TRANSISTOR OR 2SB709ATX
Q3172	BC857B	TRANSISTOR OR 2SB709ATX
Q3174	BC847B	TRANSISTOR OR 2SD601ATX
Q3176	BC857B	TRANSISTOR OR 2SB709ATX
Q3179	BC857B	TRANSISTOR OR 2SB709ATX
Q3182	BC857B	TRANSISTOR OR 2SB709ATX
Q3184	BC847B	TRANSISTOR OR 2SD601ATX
Q3186	BC857B	TRANSISTOR OR 2SB709ATX
Q3189	BC857B	TRANSISTOR OR 2SB709ATX
Q3359	BC847B	TRANSISTOR OR 2SD601ATX
Q3368	2SB710A-XR	TRANSISTOR
Q3371	BC857B	TRANSISTOR OR 2SB709ATX
Q3373	2SC4714RL2	TRANSISTOR
Q3374	2SC3063RL	TRANSISTOR
Q3377	2SA1698RL	TRANSISTOR
Q3381	BC857B	TRANSISTOR OR 2SB709ATX
Q3383	2SC4714RL2	TRANSISTOR
Q3384	2SC3063RL	TRANSISTOR
Q3387	2SA1698RL	TRANSISTOR
Q3391	BC857B	TRANSISTOR OR 2SB709ATX
Q3392	2SA1309ATA	TRANSISTOR
Q3393	2SC4714RL2	TRANSISTOR
Q3394	2SC3063RL	TRANSISTOR
Q3397	2SA1698RL	TRANSISTOR
Q4701	BC847B	TRANSISTOR OR 2SD601ATX
Q4702	BC847B	TRANSISTOR OR 2SD601ATX

Ref No.	Part No.	Description
Q4703	BC847B	TRANSISTOR OR 2SD601ATX
Q4704	BF370-126	TRANSISTOR
Q4705	BF370-126	TRANSISTOR
Q6111	BC847B	TRANSISTOR OR 2SD601ATX
Q6114	BC847B	TRANSISTOR OR 2SD601ATX
Q6403	BC847B	TRANSISTOR OR 2SD601ATX
Q6413	BC847B	TRANSISTOR OR 2SD601ATX
Q6417	BC857B	TRANSISTOR OR 2SB709ATX
Q6433	BC847B	TRANSISTOR OR 2SD601ATX
Q6443	BC847B	TRANSISTOR OR 2SD601ATX
Q6447	BC857B	TRANSISTOR OR 2SB709ATX

## RESISTOR

Ref No.	Part No.	Description
RL6101	TSE10818	RELAY
R201	ERD25TJ223	CARBON 0.25W 5% 22KΩ
R206	ERG2ANJ223	METAL 2W 5% 22KΩ
R259	ERD25TJ473	CARBON 0.25W 5% 47KΩ
R462	ERD25TJ101	CARBON 0.25W 5% 100Ω
R463	ERD25TJ103	CARBON 0.25W 5% 10KΩ
R466	ERD25TJ153	CARBON 0.25W 5% 15KΩ
R470	ERD25TJ270	CARBON 0.25W 5% 27Ω
R471	ERD25TJ102	CARBON 0.25W 5% 1KΩ
R472	ERD25TJ333	CARBON 0.25W 5% 33KΩ
R473	ERD25TJ2R7	CARBON 0.25W 5% 2R7Ω
R477	ERD25TJ105	CARBON 0.25W 5% 1MΩ
R478	ERD25TJ332	CARBON 0.25W 5% 3K3Ω
R479	ERDS1TJ2R2	CARBON 0.5W 5% 2R2Ω
R480	ERD25TJ270	CARBON 0.25W 5% 27Ω
R481	ERD25TJ102	CARBON 0.25W 5% 1KΩ
R482	ERD25TJ333	CARBON 0.25W 5% 33KΩ
R483	ERD25TJ2R7	CARBON 0.25W 5% 2R7Ω
R484	ERD25TJ273	CARBON 0.25W 5% 27KΩ
R485	ERD25TJ561	CARBON 0.25W 5% 560Ω
R486	ERD25TJ333	CARBON 0.25W 5% 33KΩ
R487	ERD25TJ105	CARBON 0.25W 5% 1MΩ
R488	ERD25TJ332	CARBON 0.25W 5% 3K3Ω
R489	ERDS1TJ2R2	CARBON 0.5W 5% 2R2Ω
R490	ERD25TJ563	CARBON 0.25W 5% 56KΩ
R491	ERQ14AJ100	METAL 0.25W 5% 10Ω Δ
R492	ERD25TJ102	CARBON 0.25W 5% 1KΩ
R493	ERD25TJ473	CARBON 0.25W 5% 47KΩ
R494	ERD25TJ684	CARBON 0.25W 5% 680KΩ
R496	ERD25TJ103	CARBON 0.25W 5% 10KΩ
R497	ERD25TJ103	CARBON 0.25W 5% 10KΩ
R498	ERD25TJ103	CARBON 0.25W 5% 10KΩ
R499	ERD25TJ473	CARBON 0.25W 5% 47KΩ
R501	ERD25TJ470	CARBON 0.25W 5% 47Ω
R507	ERD25TJ2R2	CARBON 0.25W 5% 2R2Ω
R521	ERQ14AJ3R3	METAL 0.25W 5% 3R3Ω Δ
R526	ERD25TJ560	CARBON 0.25W 5% 56Ω
R527	ERDS1TJ152	CARBON 0.5W 5% 1K5Ω
R528	ERDS1TJ152	CARBON 0.5W 5% 1K5Ω
R531	ERF10ZK6R8	WIRE 10W 5% 6R8Ω Δ
R532	ERW2PKR47	WIREWOUND2W 10% R47Ω Δ
R533	ERDS1TJ220	CARBON 0.5W 5% 22Ω
R541	ERG1ANJ152	METAL 1W 5% 1K5Ω
R542	ERQ1ABJ101	FUSIBLE 1W 5% 100Ω Δ
R543	ERD25TJ103	CARBON 0.25W 5% 10KΩ
R546	ERDS1TJ184	CARBON 0.5W 5% 180KΩ
R548	ERD25TJ223	CARBON 0.25W 5% 22KΩ
R549	ERDS1TJ224	CARBON 0.5W 5% 220KΩ
R557	ERQ12HKR22	FUSIBLE 0.5W 5% R22Ω Δ
R559	ERDS1TJ100	CARBON 0.5W 5% 10Ω
R561	ERQ12HJ1R5	FUSIBLE 0.5W 5% 1R5Ω Δ
R563	ERD25TJ104	CARBON 0.25W 5% 100KΩ
R564	ERD25TJ223	CARBON 0.25W 5% 22KΩ
R566	ERD25TJ472	CARBON 0.25W 5% 4K7Ω
R567	ERD25TJ472	CARBON 0.25W 5% 4K7Ω
R568	ERD25TJ1R5	CARBON 0.25W 5% 1R5Ω

Ref No.	Part No.	Description
R569	ERDS1TJ221	CARBON 0.5W 5% 220Ω
R572	ERO25CKF1801	METAL 0.25W 1% 1K8Ω Δ
R573	ERO25CKF1801	METAL 0.25W 1% 1K8Ω Δ
R574	ERW12PKR56	WIREWOUND0.5W 10% R56Ω Δ
R576	ERD25TJ682	CARBON 0.25W 5% 6K8Ω
R577	ERD25TJ822	CARBON 0.25W 5% 8K2Ω
R578	ERD25TJ680	CARBON 0.25W 5% 68Ω
R579	ERD25TJ332	CARBON 0.25W 5% 3K3Ω
R583	ERD25TJ103	CARBON 0.25W 5% 10KΩ
R584	ERO25CKF1002	METAL 0.25W 1% 10KΩ Δ
R590	ERD25TJ224	CARBON 0.25W 5% 220KΩ
R591	ERD25TJ472	CARBON 0.25W 5% 4K7Ω
R592	ERD25TJ103	CARBON 0.25W 5% 10KΩ
R593	ERD25TJ103	CARBON 0.25W 5% 10KΩ
R594	ERD25TJ394	CARBON 0.25W 5% 390KΩ
R595	ERD25TJ473	CARBON 0.25W 5% 47KΩ
R596	ERD25TJ473	CARBON 0.25W 5% 47KΩ
R597	ERD25TJ475	CARBON 0.25W 5% 4M7Ω
R598	ERD25TJ102	CARBON 0.25W 5% 1KΩ
R599	ERD25TJ103	CARBON 0.25W 5% 10KΩ
R613	ERF10ZK5R6	WIRE 10W 5% 5R6Ω Δ
R614	ERDS1TJ394	CARBON 0.5W 5% 390KΩ
R616	ERC12GK154D	SOLID 0.5W 10% 150KΩ
R619	232266296706	THERMISTOR
R621	ERG2FJ183	METAL 0.5W 5% 18KΩ Δ
R622	ERDS1TJ394	CARBON 0.5W 5% 390KΩ
R623	ERD25TJ472	CARBON 0.25W 5% 4K7Ω
R624	ERD25TJ121	CARBON 0.25W 5% 120Ω
R625	ERC12GK154D	SOLID 0.5W 10% 150KΩ
R626	ERG2FJ183	METAL 0.5W 5% 18KΩ Δ
R627	ERD25TJ103	CARBON 0.25W 5% 10KΩ
R628	ERG3FJ393	METAL 0.25W 5% 39KΩ Δ
R629	ERG1ANJ470	METAL 1W 5% 47Ω
R630	ERD25TJ270	CARBON 0.25W 5% 27Ω
R631	ERD25TJ101	CARBON 0.25W 5% 100Ω
R632	ERO25CKF1400	METAL 0.25W 1% 140Ω Δ
R633	ERO25CKF3921	METAL 0.25W 1% 3R92KΩ Δ
R634	ERDS1TJ1R5	CARBON 0.5W 5% 1R5Ω
R636	ERD25TJ473	CARBON 0.25W 5% 47KΩ
R639	ERD75TAJ825	CARBON 0.75W 5% 8M2Ω Δ
R651	ERDS1TJ474	CARBON 0.5W 5% 470KΩ
R652	ERD25TJ102	CARBON 0.25W 5% 1KΩ
R666	ERO25CKF3301	METAL 0.25W 1% 3K3Ω Δ
R667	ERO25CKF3900	METAL 0.25W 1% 3R9KΩ Δ
R674	ERD25TJ223	CARBON 0.25W 5% 22KΩ
R675	ERD25TJ155	CARBON 0.25W 5% 1M5Ω
R676	ERO25CKF1002	METAL 0.25W 1% 10KΩ Δ
R677	ERO25CKF1002	METAL 0.25W 1% 10KΩ Δ
R678	ERD25TJ121	CARBON 0.25W 5% 120Ω
R680	ERQ12HJ1R5	FUSIBLE 0.5W 5% 1R5Ω Δ
R681	ERDS1TJ4R7	CARBON 0.5W 5% 4R7Ω
R682	ERD25TJ222	CARBON 0.25W 5% 2K2Ω
R683	ERG3FJ101	METAL 3W 5% 100Ω Δ
R684	ERD25TJ682	CARBON 0.25W 5% 6K8Ω
R686	FN4R1KR	FUSIBLE 0.25W 5% 0R1Ω
R688	FN4R1KR	FUSIBLE 0.25W 5% 0R1Ω
R1001	ERQ14AJ3R3	METAL 0.25W 5% 3R3Ω Δ
R1011	ERQ14AJ100	METAL 0.25W 5% 10Ω Δ
R1019	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1020	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1021	ERJ6GEYJ153	S.M.CARB 0.1W 5% 15KΩ
R1022	ERJ6GEYJ153	S.M.CARB 0.1W 5% 15KΩ
R1023	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1024	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1031	ERJ6GEYJ153	S.M.CARB 0.1W 5% 15KΩ
R1032	ERJ6GEYJ153	S.M.CARB 0.1W 5% 15KΩ
R1033	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1034	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1036	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1038	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1041	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω

Ref No.	Part No.	Description
R1042	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1071	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47KΩ
R1072	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1073	ERJ6GEYJ152	S.M.CARB 0.1W 5% 1K5Ω
R1074	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R1091	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47KΩ
R1092	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1093	ERJ6GEYJ152	S.M.CARB 0.1W 5% 1K5Ω
R1094	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R1095	ERJ6GEYJ474	S.M.CARB 0.1W 5% 470KΩ
R1116	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100KΩ
R1117	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100KΩ
R1120	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1121	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75Ω
R1122	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75Ω
R1123	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R1124	ERJ6GEYJ151	S.M.CARB 0.1W 5% 150Ω
R1125	ERJ6GEYJ151	S.M.CARB 0.1W 5% 150Ω
R1126	ERQ14AJ100	METAL 0.25W 5% 10Ω Δ
R1127	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R1131	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1132	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1133	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1151	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75Ω
R1152	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100KΩ
R1153	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100KΩ
R1156	ERJ6GEYJ470	S.M.CARB 0.1W 5% 47Ω
R1158	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1159	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75Ω
R1161	ERJ6GEYJ682	S.M.CARB 0.1W 5% 6K8Ω
R1162	ERJ6GEYJ333	S.M.CARB 0.1W 5% 33KΩ
R1163	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R1166	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1167	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1168	ERJ6GEYJ680	S.M.CARB 0.1W 5% 68Ω
R1169	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R1171	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75Ω
R1172	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R1173	ERJ6GEYJ151	S.M.CARB 0.1W 5% 150Ω
R1174	ERJ6GEYJ151	S.M.CARB 0.1W 5% 150Ω
R1177	ERJ6GEYJ561	S.M.CARB 0.1W 5% 560Ω
R1178	ERQ14AJ100	METAL 0.25W 5% 10Ω Δ
R1181	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1182	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1183	ERJ6GEYJ680	S.M.CARB 0.1W 5% 68Ω
R1184	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1185	ERJ6GEYJ151	S.M.CARB 0.1W 5% 150Ω
R1191	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1192	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1193	ERJ6GEYJ680	S.M.CARB 0.1W 5% 68Ω
R1194	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1195	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75Ω
R1221	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47KΩ
R1222	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47KΩ
R1225	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1237	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1241	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R1242	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R1251	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75Ω
R1270	ERJ6GEYJ470	S.M.CARB 0.1W 5% 47Ω
R1271	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75Ω
R1272	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75Ω
R1273	ERJ6GEYJ470	S.M.CARB 0.1W 5% 47Ω
R1276	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100KΩ
R1277	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100KΩ
R1281	ERJ6GEYJ153	S.M.CARB 0.1W 5% 15KΩ
R1282	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1283	ERJ6GEYJ153	S.M.CARB 0.1W 5% 15KΩ
R1284	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1349	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47KΩ
R1381	ERJ6GEYJ223	S.M.CARB 0.1W 5% 22KΩ
R1382	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47KΩ

Ref No.	Part No.	Description
R1386	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R1412	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R1464	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1465	ERJ6GEYJ183	S.M.CARB 0.1W 5% 18KΩ
R1466	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω
R1467	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R1474	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1476	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω
R1477	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R1484	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1486	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω
R1487	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R1494	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1496	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω
R1497	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R1608	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R1612	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1613	ERJ6GEYJ560	S.M.CARB 0.1W 5% 56Ω
R1614	ERJ6GEYJ331	S.M.CARB 0.1W 5% 330Ω
R1615	ERJ6GEYJ221	S.M.CARB 0.1W 5% 220Ω
R1616	ERJ6GEYJ151	S.M.CARB 0.1W 5% 150Ω
R1617	ERJ6GEYJ333	S.M.CARB 0.1W 5% 33KΩ
R1618	ERJ6GEYJ151	S.M.CARB 0.1W 5% 150Ω
R1619	ERJ6GEYJ151	S.M.CARB 0.1W 5% 150Ω
R1621	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R1622	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1623	ERJ6GEYJ123	S.M.CARB 0.1W 5% 12KΩ
R1624	ERJ6GEYJ333	S.M.CARB 0.1W 5% 33KΩ
R1626	ECUV1H151JCX	S.M.CAP 50V 150pF
R1627	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75Ω
R1630	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1631	ERJ6GEYJ470	S.M.CARB 0.1W 5% 47Ω
R1632	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R1633	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1634	ERJ6GEYJ332	S.M.CARB 0.1W 5% 3K3Ω
R1636	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75Ω
R1637	ERJ8GEYJ471	S.M.CAR .125W 5% 470Ω
R1641	ERJ6GEYJ821	S.M.CARB 0.1W 5% 820Ω
R1642	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R1643	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1644	ERJ6GEYJ332	S.M.CARB 0.1W 5% 3K3Ω
R1646	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75Ω
R1647	ERJ8GEYJ471	S.M.CAR .125W 5% 470Ω
R1652	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R1653	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1654	ERJ6GEYJ332	S.M.CARB 0.1W 5% 3K3Ω
R1656	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75Ω
R1657	ERJ8GEYJ471	S.M.CAR .125W 5% 470Ω
R1661	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1664	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1666	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1667	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100KΩ
R1668	ERJ6GEYJ474	S.M.CARB 0.1W 5% 470KΩ
R1669	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1670	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1671	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1672	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1673	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1674	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1681	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1682	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47KΩ
R1683	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R1691	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75Ω
R1692	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75Ω
R1693	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75Ω
R1694	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75Ω
R1696	ERJ8GEYJ103	S.M.CAR .125W 5% 10KΩ
R1698	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1717	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R1718	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1719	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1753	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω

Ref No.	Part No.	Description
R1807	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω
R1808	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1809	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1811	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1812	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1815	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1816	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47KΩ
R1819	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1821	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R1822	ERJ6GEYJ392	S.M.CARB 0.1W 5% 3K9Ω
R1823	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1824	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47KΩ
R1825	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1826	ERJ6GEYJ563	S.M.CARB 0.1W 5% 56KΩ
R1827	ERJ6GEYJ393	S.M.CARB 0.1W 5% 39KΩ
R1828	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1829	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R1831	ERJ6GEYJ392	S.M.CARB 0.1W 5% 3K9Ω
R1832	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1837	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1838	ERJ6GEYJ331	S.M.CARB 0.1W 5% 330Ω
R1840	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R1842	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1843	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1844	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1845	ERJ6GEYJ470	S.M.CARB 0.1W 5% 47Ω
R1847	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1849	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1850	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R1851	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1856	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1857	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1858	ERJ8GEYJ103	S.M.CAR .125W 5% 10KΩ
R1859	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1863	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1872	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1873	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1878	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1879	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1882	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1884	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω
R1885	ERJ8GEY0R00	S.M.CAR .125W 5% 0Ω
R1886	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω
R1887	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R1888	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1889	ERJ8GEY0R00	S.M.CAR .125W 5% 0Ω
R1893	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1897	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1920	ERJ8GEYJ223	S.M.CAR .125 5% 22KΩ
R1921	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1922	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R1925	ERJ6GEYJ331	S.M.CARB 0.1W 5% 330Ω
R1933	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R1941	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R1953	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1957	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1958	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1959	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1961	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1962	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1963	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1964	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1983	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1993	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R3101	ERJ6GEYJ562	S.M.CARB 0.1W 5% 5K6Ω
R3102	ERJ6GEYJ562	S.M.CARB 0.1W 5% 5K6Ω
R3103	ERJ6GEYJ562	S.M.CARB 0.1W 5% 5K6Ω
R3104	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω
R3106	ERJ6GEYJ563	S.M.CARB 0.1W 5% 56KΩ
R3107	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R3108	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R3109	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω





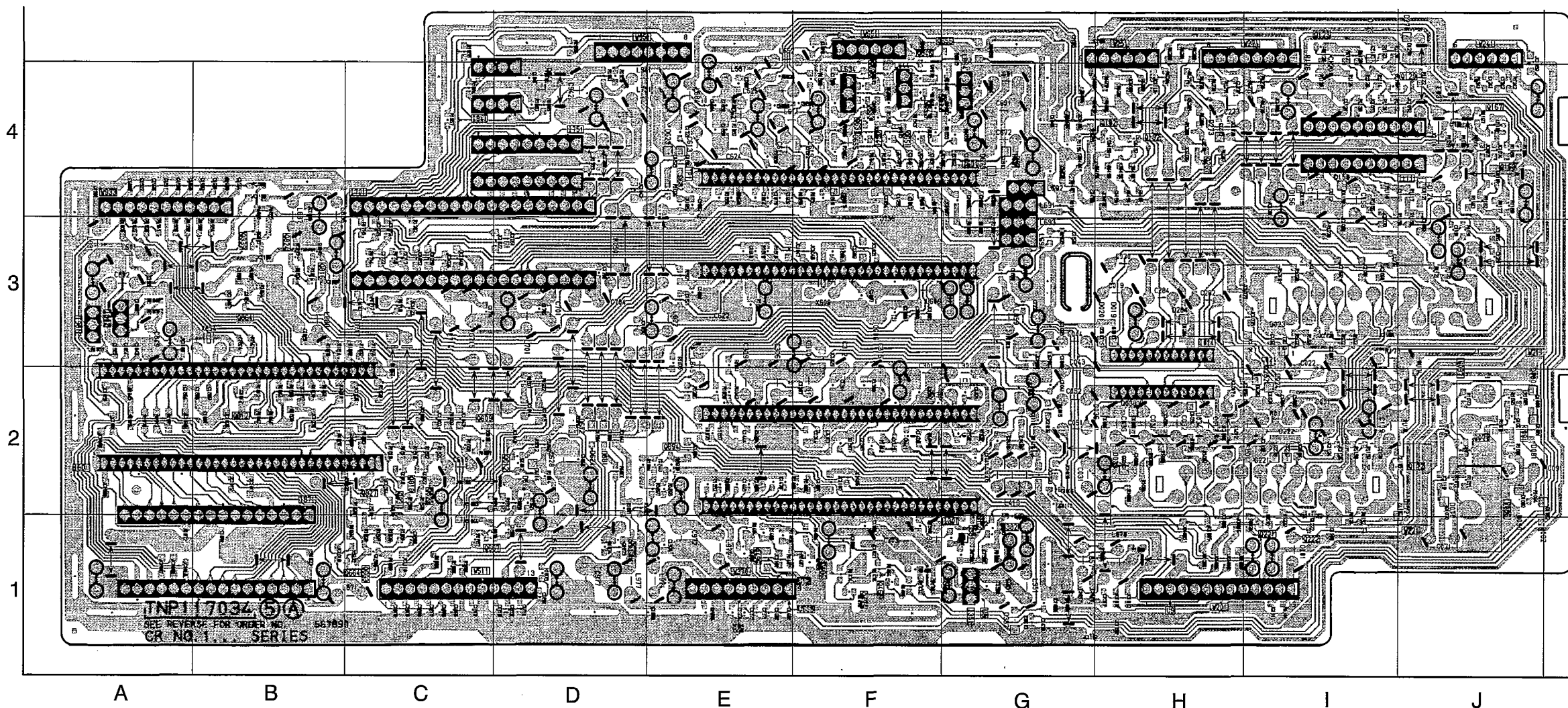
Ref No.	Part No.	Description
R6102	ERD25TJ151	CARBON 0.25W 5% 150Ω
R6106	ERD25TJ330	CARBON 0.25W 5% 33Ω
R6111	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R6112	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R6113	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R6114	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R6301	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R6302	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R6305	ERJ6GEYOR00	S.M.CARB 0.1W 5% 0Ω
R6401	ERD25TJ220	CARBON 0.25W 5% 22Ω
R6402	ERD25TJ220	CARBON 0.25W 5% 22Ω
R6403	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R6404	ERJ6GEYOR00	S.M.CARB 0.1W 5% 0Ω
R6405	ERJ6GEYOR00	S.M.CARB 0.1W 5% 0Ω
R6406	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R6407	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R6408	ERJ6GEYOR00	S.M.CARB 0.1W 5% 0Ω
R6411	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47KΩ
R6412	ERJ6GEYJ273	S.M.CARB 0.1W 5% 27KΩ
R6413	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R6416	ERD25TJ101	CARBON 0.25W 5% 100Ω
R6417	ERD25TJ101	CARBON 0.25W 5% 100Ω
R6418	ERJ6GEYJ100	S.M.CARB 0.1W 5% 10Ω
R6433	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R6436	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R6437	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R6438	ERJ6GEYOR00	S.M.CARB 0.1W 5% 0Ω
R6441	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47KΩ
R6442	ERJ6GEYJ273	S.M.CARB 0.1W 5% 27KΩ
R6443	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R6446	ERD25TJ101	CARBON 0.25W 5% 100Ω
R6447	ERD25TJ101	CARBON 0.25W 5% 100Ω
R6448	ERJ6GEYJ100	S.M.CARB 0.1W 5% 10Ω
R6811	ERC12ZGK335D	SOLID 0.5W 10% 3M3Ω

Ref No.	Part No.	Description
<b>SWITCHES</b>		
S6304	EVQ23405R	SWITCH
S6305	EVQ23405R	SWITCH
S6306	EVQ23405R	SWITCH
S6307	EVQ23405R	SWITCH
S6308	EVQ23405R	SWITCH
S6811	ESB91232A	SWITCH
<b>TRANSFORMERS</b>		
T528	ETH19Y173AY	TRANSFORMER
T531	ZTFH65005A	TRANSFORMER
T639	ETS39AH127AC	TRANSFORMER
T6101	ETP35KAN614U	TRANSFORMER
<b>CONNECTORS</b>		
W1951	MKS165810808	CONNECTOR
<b>FILTERS</b>		
X1321	4730007158	CRYSTAL
X1608	TSS2169-B	CRYSTAL
X1854	TSS4007-B	CRYSTAL
X4702	EFCV4155A3	CERAMIC FILTER
X4704	J3352K	SAW FILTER
X4706	EFC56R0MW5	FILTER

# CONDUCTOR VIEWS

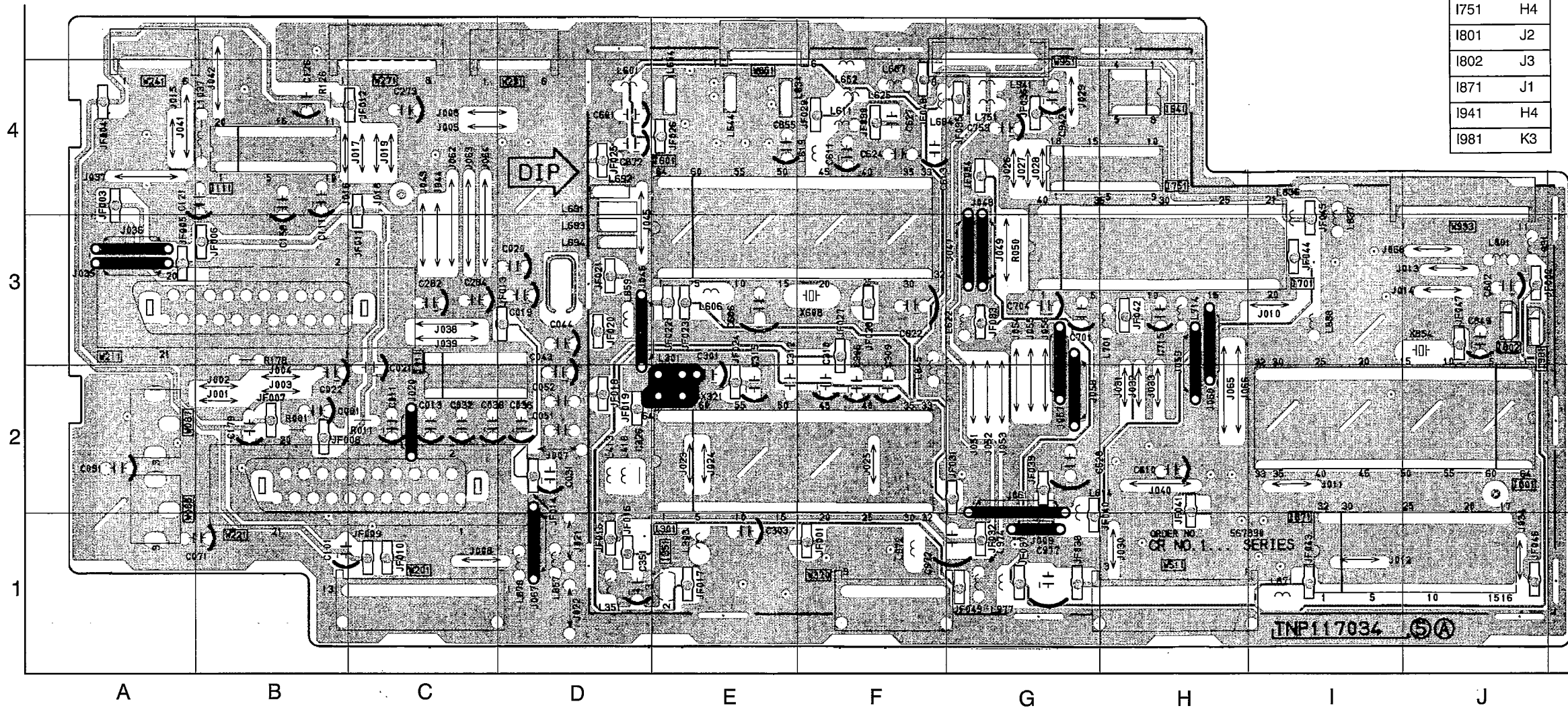
## A-BOARD TNP117034

TRANS	DIODES		IC'S		
Q071	J2	D019	H3	IC011	H2
Q091	J2	D020	H3	IC111	I4
Q123	I5	D023	I3	IC301	F2
Q129	I4	D024	I2	IC351	G1
Q163	J4	D033	H2	IC601	F3
Q167	J4	D034	H2	IC701	C3
Q172	J2	D036	H2	IC751	D4
Q182	H4	D038	H2	IC801	A2
Q192	H4	D070	J1	IC802	A3
Q221	I1	D080	J2	IC871	B1
Q222	I1	D081	J2	IC941	D4
Q267	H4	D082	J1	IC981	A3
Q382	G1	D090	J1		
Q466	F1	D123	I4	TP'S	
Q476	F1	D221	I2	TP1	E4
Q486	F1	D222	I2	TP2	G1
Q496	E1	D270	J5		
Q609	C2	D273	H4		
Q612	D2	D282	I2		
Q631	F4	D284	H3		
Q633	F4	D381	G1		
Q636	F4	D382	G1		
Q641	F4	D601	G4		
Q643	F4	D614	D2		
Q646	F5	D617	F4		
Q651	F4	D623	E4		
Q653	F4	D624	D2		
Q656	F5	D672	D2		
Q663	C1	D673	G4		
Q664	C1	D681	D2		
Q667	C1	D682	E4		
Q673	D1	D717	C3		
Q812	B2	D755	F3		
Q816	B3	D941	D4		
Q818	C2				
Q822	C2				
Q824	B3				
Q827	C2				
Q831	C2				
Q839	B3				
Q864	B3				
Q894	E2				



A-BOARD TNP117034

I.C.'S	
I011	C2
I111	B4
I301	E2
I351	E1
I601	E3
I701	H3
I751	H4
I801	J2
I802	J3
I871	J1
I941	H4
I981	K3



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**Long scan**

**Long scan**

**Long scan**

**Long scan**

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**Long scan**

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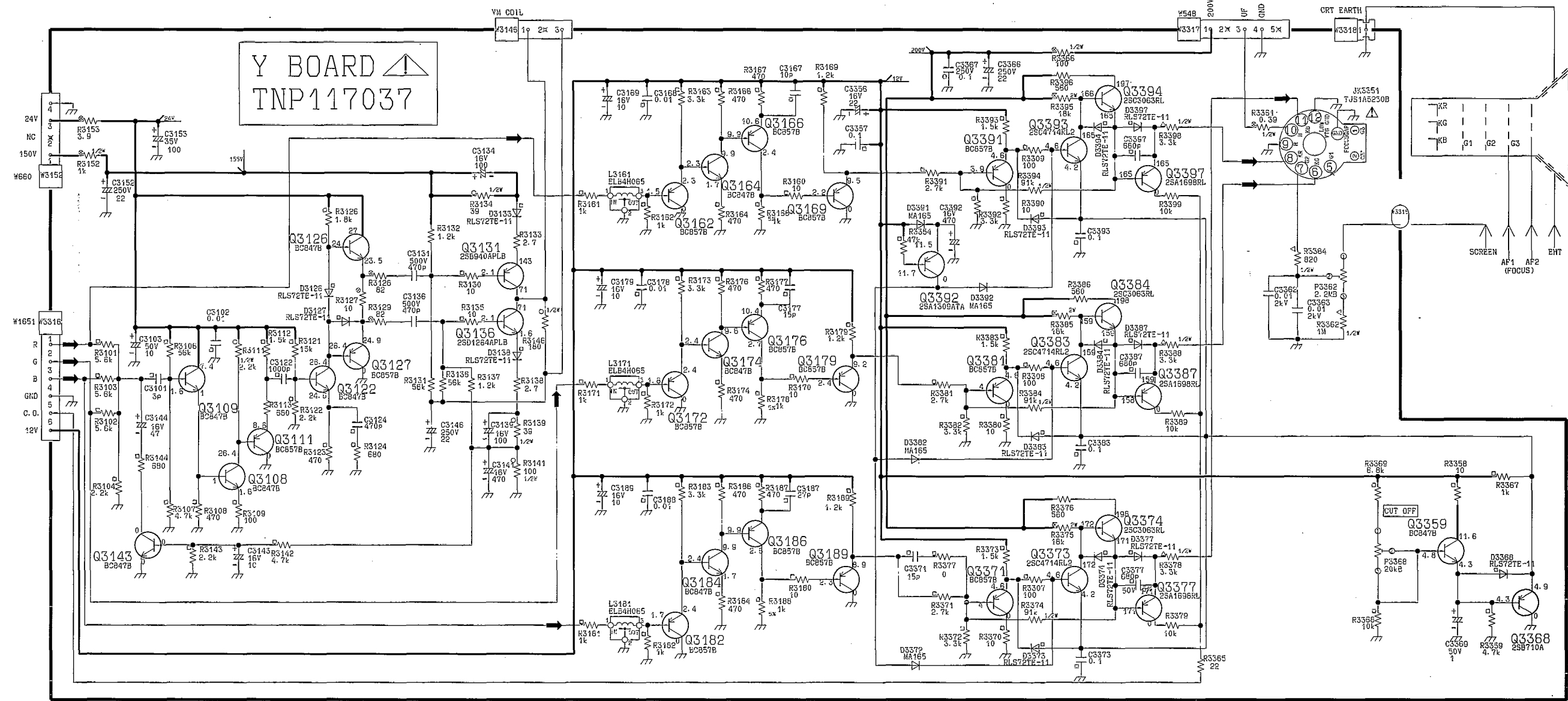
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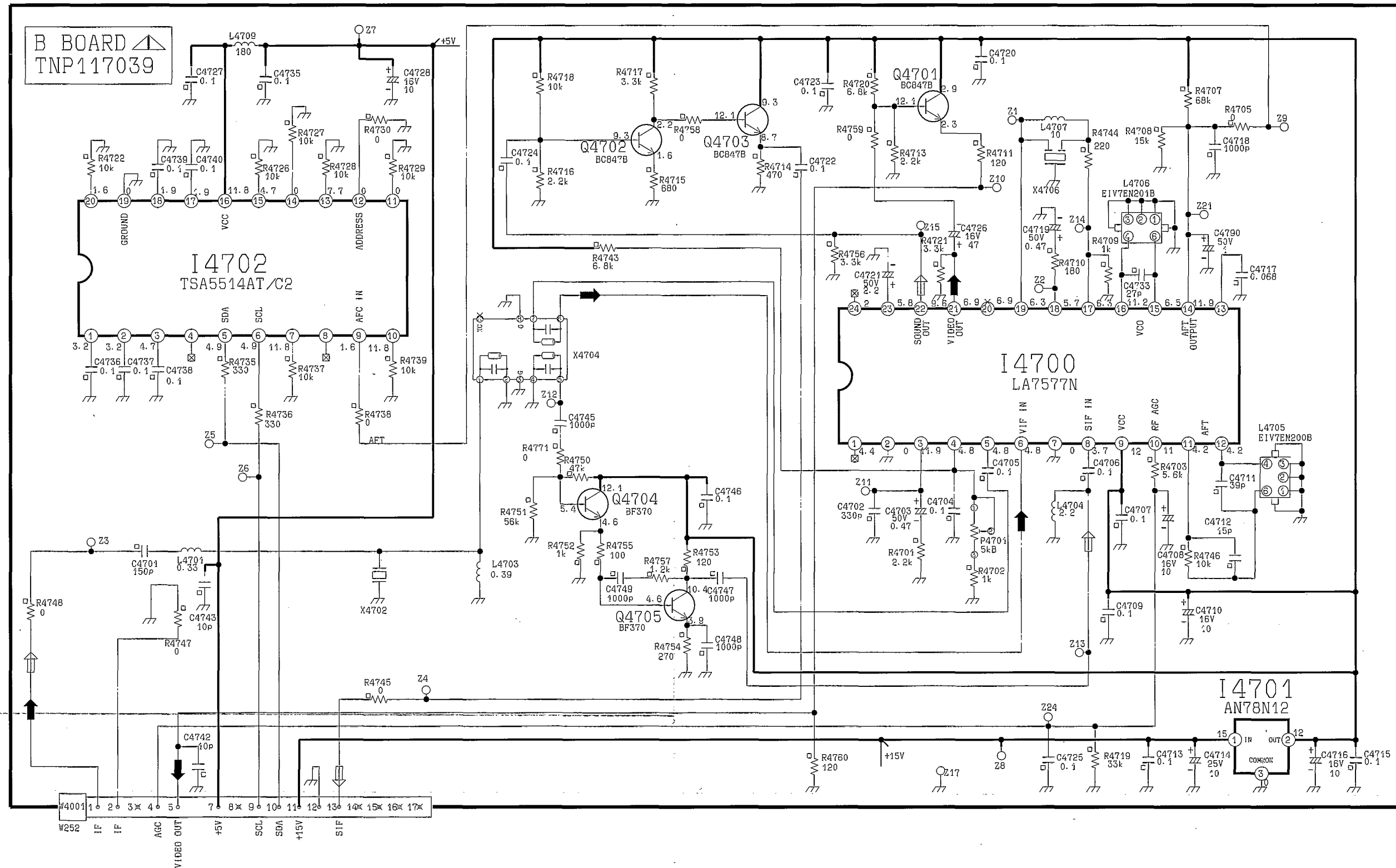
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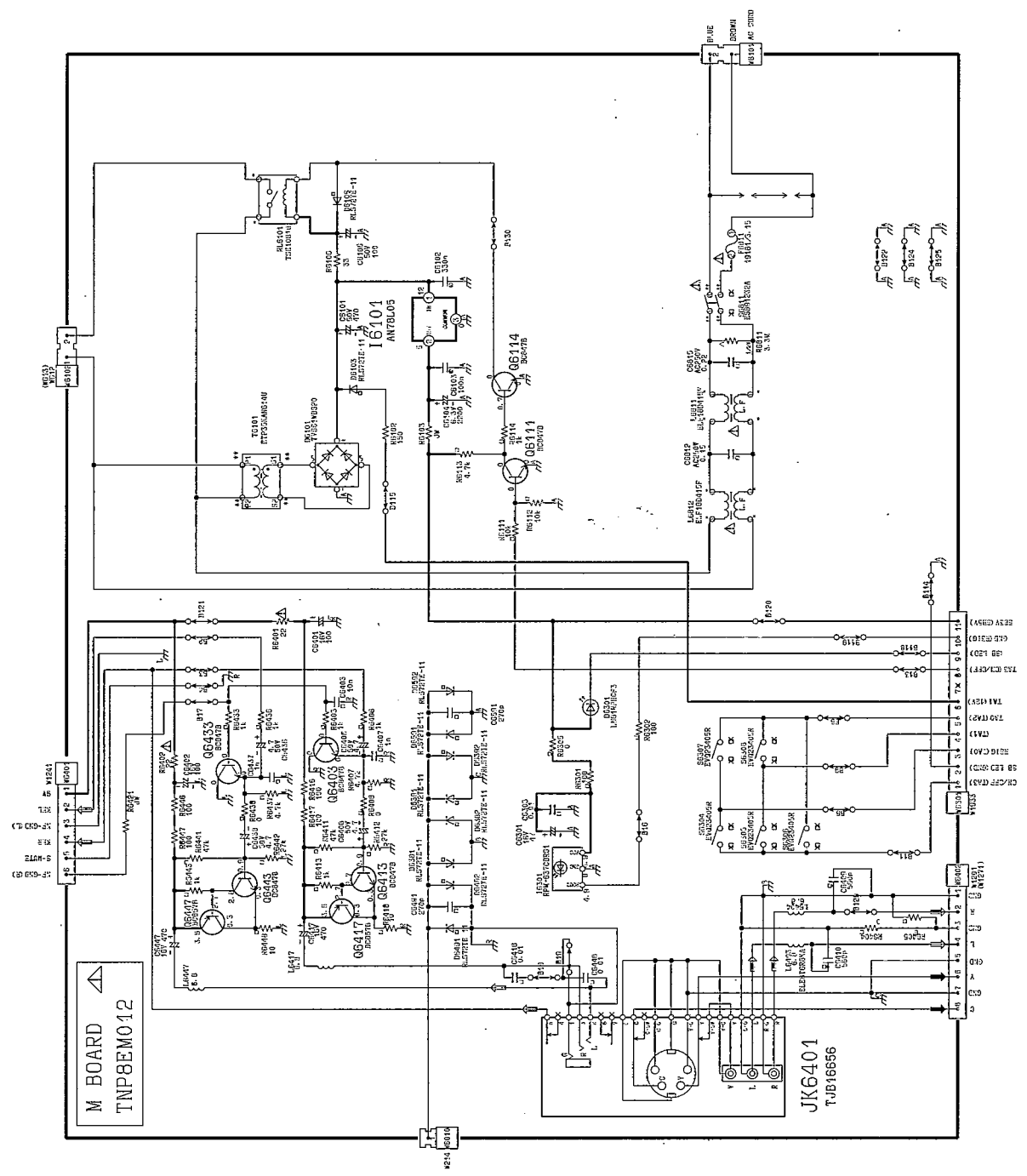
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